

May 6. 1854

Botanic Garden Melbourne
6. June 1854.

My dear Sir

Dr Graham called on me
some while ago to receive
the specific names to some
specimens of plants, which he
gathered about the Ballarat
goldfields and as he is going
now back to your fine country
I thought it to be an agree-
able opportunity to establish
if possible an intercourse with
you, which, perhaps of but little
advantage to you, will be as
delightful as instructive to me.

You will ^{have} perhaps surprised
to see some of your already
described Western Australian
Compositae reappear with new
names and new descriptions in
the *Linnæa* of 1853. This owes
partly to my not receiving
in time your valuable remarks
and partly to protracted pub-
lication. Already as early 1847
I commenced describing Australian
plants when staying at Arclark

but unfortunately the main set
of my manuscripts was lost
1857 on the way home in the
wreck of the "Sir Robt. Peel" on
the Cape coast and appointed time
only since about one year I
have been not able yet to replace
all the loss from my scattered
notes.

It would be extremely gratifying
to me, Dear Sir, if you would
send me a collection of North
American plants, such as you
can spare, for which I shall
be happy to return at once
an equal number of Australian
plants (with names and loc. natal.)

Of seeds I shall have, also
constantly a lot ready for
exchange, should you be pleased
to send us some for our garden.
We have really but very little
from N. A.

Since now an almost regular
trade exists with the N. A.
harbours I think there will
be but little difficulty in
realising the object proposed.

Allow me, Dear Sir, to subscribe
myself as one of your friends and
admirers.

Prof. Dr. Wm. Gray.

Jos. Mueller.

Dr. James W. A. D. D. D.

He &c &c.



Rev. Dr. D. D. D.

Boston
in Cambridge

[Faint, illegible handwriting]

May 6/57 / Milwaukee 24. Jan. 1857.

Sir

A few years ago I had the honor of addressing you through a mutual gentleman of the United States, inquiring, whether you were inclined to enter into an exchange of plants, particularly dried specimens, and seeds with the establishment under my care. Presuming that the letter was lost or not delivered, I beg to repeat my offer anew, and may state, that I should be able to get at least 1000 Super. dried plants ready for you within this year, if such as will as many kind of seeds were acceptable to you for an equal number of yours. Our herbarium is more devoid of North American plants, than of any others; and perhaps you are in the same position with regard to yours. - I think almost the safest way of sending would be through via London, but this will entirely depend on your suggestions or arrangements.

Permit me to express in conclusion my best wishes for your welfare and my admiration for your multifarious excellent contributions for our favorite science.

Most obediently,

Geo. Mueller.

Dr. Asa Gray,
& & &

Dr. Asa Gray

Prof of Botany &c &c

Cambridge University

Boston

Melbourne bot garden
15. Oct. 1857

My dear Dr. Asa Gray

I have but a few
sparasmunt's left
before the close of
the mail, to answer
to your very kind
lines just arrived
through Dr's Will.

Wookro care. I
will do my best
to furnish sets of
Australian specimens
speedily for your N.
American lovers of
Potany and will re-
view my Campoph's
Collection carefully
for a set for your
own Librarian. For

in whose hands could
the letter be placed?

Accept, dear Sir,
the sentiments of
my admiration for
you and likewise
my best wishes
for your welfare.

I am obediently
yours

J. W. Muller.

return at an early period
an ample equivalent.

Truly yours
Geo. Mueller.

The Captain of the Red
Jacket has undertaken
to ship the box from
Liverpool with the first
Boston steamer, but I
try to recommend, to
instruct some party there
to enquire, whether such
has been duly the case.

Melbourne bot Garden
8. March 1858.

My dear Prof. Asa Gray.
I try to acquaint you by
these lines, that I forward
this day a box with spe-
cimens & seeds divided into
10 collections by the famous
clippm. "Red Jacket" ⁹ to the
~~for Agent in London~~ ^{Liverpool}, to be
thence forwarded to you, as
seldom or never a direct
opportunity of sending to
you offers itself. The seeds
amount to 2340 papers,
the specimens to about
1350. To these have been
added some pamphlets.
I avail myself gratefully
of your kind promise
to distribute all these
things over North Ame-
rica, praying you will
retain the principal col-
lection for your own use.

blissment. It would be extremely pleasant to receive an equivalent back at an early period from those establishments, to which you think proper to send them. I refrain from sending a list of what we require, for our garden is yet so young & so poor, that hardly any seed, native of North America, will come amiss. But I may state, that seed of our native trees & shrubs would be particularly desirable, for instance ^{perhaps} acorns of all your oaks. The seeds which I try to offer are all collected within the last months & with a few exceptions Australian ones.

I expect much benefit from sharing in the annual interchange of seeds, which no doubt exists in the North American Gardens. -

It was my intention to have selected a set of Compositae for you from my Herbarial Collection, but my time has been lately fully absorbed by duties as Director of this garden. I will however bear your former request in mind.

Should any North American garden or Botanist, who can not be supplied from what I send on this occasion feel inclined to exchange seed with this establishment, I would suggest that collections were made up for me, and I will pledge myself to

plants.

I return the costly
compilation of this
note & accept
the best wishes
& the fullest veneration
from your
humble

Jos. Mueller.
M.D., Ph.D.

Prof. Asa Gray, M.D.
& & &

Melbourne Cal. July
15 June 1858

Much Honored Sir
Allow me to inform
you again, that I for-
warded about the middle
of March this year
a consignment of
seeds & specimens
to you, shipped in
a Red Packet, to Li-
verpool in behalf
of this Government,
to be exchanged for
seeds & specimens
(particularly the former)
of plants indigenous
to the United States.
The box contained 2340
papers of seeds, divided
into ten collections

4 / 350 specimens
also divided into
10 lots, besides
some pamphlets
&c.

The Capt. of the
New York Kind-
fully undertook
to forward the
box on to Boston,
but I have own
and own experi-
ence that Cases
with articles like
the above are ^{usually}
opened at the
Custom House and
more or less emptied
of their contents,
that I feel very
anxious to hear

of the safe arrival.
We endeavored un-
successfully to introduce
the noble Arabian
oaks by acorns,
& ^{by} ~~by~~ ^{by} seeds,
but never succeeds.
If you kindly could
order some packed
for us, I would
suggest to have
them packed in dry
sand, & stratum over
stratum in a stout
box.

I shall take an
early opportunity
again communi-
cating with you
and have some
books in readiness
for you, as well as

as I can hunt up.

I enclose the male
& female plant of
D. Hookeri *Reichenbachii*
Tasmanica. Our mu-
tual friend evidently
~~has~~ is not aware of
the plant being dioc-
ious, altho' I have
when referring it in
1854 (*Phil. Transact.* vol
I (1854-1855) p. 45. to
Antennaria ^{as *Antennaria* *subsp.*} I gave that
character. In Sir Will.
Hooker's reprint the
sectional character, published
by me is omitted. It is
as follows: Antenna:

4 Scales of involucre radiating, ^{heads}
of fertile plant with several rows of
female flowers in circumference
and with hermaphrodite ones in
the centre. Heads of the sterile plants

Melbourne box, & goal
Garden, 18 Oct 58.

My dear Prof. Hoggan.

I beg to express my
gratitude for your gen-
erosity of sending me
so many valuable and
highly interesting
publications, doubly
valued as coming
out of your hands.
I trust young *Antennaria*
will imitate the
noble zeal of your vi-
gorous nation to pro-
mote with the same
freedom of life the
prosecution of science.
The 'Red Jacket' has

reached a day or two ago this post again, but just as the mail is leaving I am unable to learn more than that my box destined for you did not share the fate of some other part of the cargo, which was consumed by fire.

I shall lay regularly plants & pamphlets as well for yourself as for the Smithsonian Institution and for your present address, and will send a consignment with every Boston vessel returning to your doors direct.

I say my dear Prof. Huxley, do not distress you about a return so very soon, but when even without extra-labour & quite conveniently to yourself it can be done your U. S. Lithographs are magnificent. I wished we could equally well illustrate here. The seeds kindly sent this time arrived in excellent order and are in the ^{pressing} ground now.

I will gladly send such Australian Compositae to you

with only numerous
flowers, a few rarely fertile
pappus at the extremity
cavellate, with exception
as that of the funnel flowers
which is not thickened^s
I think *Naevia* is
fully referable to *An-*
tunnaria

The mail just cla-
sing, disables me, to
write fully, this
time, all my correspondence
being thrown on the cob-
ray in consequence
of a large exhibi-
tion of the Boston
Society here yesterday

With the sincerest
wishes for your welfare,
your very humble friend
J. M. M.

Melbourne botanical and zoological
Garden, 10. febr. 1859.

My dear Professor Asa Gray.

Through a friend of the accomplished Mr
McGowan, to whom we owe the extension of the
telegraphic wires over this country, an opportunity
is afforded me of sending you a parcel of seeds
(fresh collected) and a few pamphlets for your
self, the worthy Prof Torrey, Dr Engelman and
other of your bot. friends. I regret that this
contribution is so very insignificant, but
the main lot of seeds procured in the interior
this season has not yet arrived and
several publications are not yet completed
or copies were at this moment not at my
command. I will send you the 4th No
of my fragments, which has been in the
printer's hands since several months, by
the first opportunity & the several other Num
bers will soon follow, as I have the manu
script prepared. Amongst the novelties to
be described is a spec of *Eucyphalartos*,
a new large bodied Anopterus, of which
genus only hitherto one sp. was known
from Tasmania, whilst *A. macrosporus*
occurs on the high mountains of E. Australia.

I sincerely hope, that the large box
with specimens, seeds and pamphlets
was at last received by you. I wrote about
it to Liverpool several times, but have
ascertained hitherto nothing about its fate.
It is a great disadvantage, that we have
no direct opportunity of forwarding from
here to Boston, otherwise my communications
would be more frequent. However I will
not be deterred by our failure and shall send
you again a box of our bot. duplicates gathered

this season.
That I received safely a few months ago the
parcel with pamphlets, the flora of N.
Australia, the seeds and other articles, which
you and Dr. Torrey were so very kind
to forward, I have duly acknowledged
at the next following mail.

With my sincerest regards I remain,
my dear Sir,
your very much attached
Geo. Mueller

The Polyglot News Letter.

A SUMMARY FOR TRANSMISSION TO EUROPE.

(ENGLISH EDITION.)

PRICE SIXPENCE.

WEIGHT UNDER HALF AN OUNCE.



THE GOUTY-STEM TREE,
NEAR THE "DOME," ON THE RIVER VICTORIA, N. W. AUSTRALIA.

PRINTED AND PUBLISHED FOR THE PROPRIETORS, AT THE "PUNCH" OFFICE, MELBOURNE.

DECEMBER, 1858.

I am just in a flood
of work connected with
this rather large depart-
ment, therefore I must
now part from you
with a hearty but
most hearty farewell.

Fr. Mueller.

Ship Alexander
to New York!

Melbourne bot. & zool
Garden, 16 Apr 59.

My dear Professor
Aschgray.

I can assure you, that
your kind letter, dated
28 Oct, which however
only a few days ago
came into my hands
has given me very
much joy, doubly so
because I learnt of the
safe arrival of my
first botanical con-
signments to the U.S.
In answer, which you
were so friendly to
contribute to this
establishment arrived
in best order, & I have
for this valuable lot
to express my heartfelt
gratitude.

By the *Sheldrake*^s
which sailed for New
York a few days ago
I forwarded under
care of a friend
8 copies of my frag-
ments No 1-4; 6 copies
of my report on the
Bathurst plants &
1 Garden report. If
there are yet any
of your noble insti-
tutions, which require
these documents
pray let me know.
The *Golconda*^s is
advertised to sail
for Boston on the 2
May. With her I
shall have much
pleasure to send
you No 5 of my
fragments, perhaps

No 6 & some add-
ed seeds, besides an
other large consign-
ment of dried speci-
mens and seeds, con-
taining a fine lot
of rarities or novel
lies from the Darling,
collected this season.

Pray receive my
sincere thanks for
your devoting so much
of your valuable time
for initiating the
desired botanical
intercourse of this
establishment with
your country; but
pray let it not break
in on your own
more important
work.

man who requires
any of my humble
works or if there is
any institution that
would like to possess
them, pray let me know.
I will think of adding
to your carpologic col-
lection.

Ever with veneration
& attachment
yours
J. M. Muller

Kind regards to the
excellent Torrey, Cuyler
& Silliman

Melbourne Cal. &
J. G. G. G.
16 May 59.

Dear Professor Agassiz.

I do not wish that
the mail should leave
without acknowledging
the arrival of the
Isabella's box which
you were so very kind
to forward to me a
large box, which however
is not yet in my hands.
I pray accept my kindest
thanks for the content
of it & for your con-
firmed generosity. There
was a good opportunity
of making a sending
to you by the "Golconda",
of which I have not

failed to avail myself
moreover as the obliging
commander of that vessel
Capt Emerson not
can make accept freight
for the sending.

The box I sent contains
1 coll of dried specimens
= about 480 species
mostly rare species from
the Darling, some of them
only discovered this season.
— 1 coll. 390 species
1 coll 220 spec. 1 coll
200 sp and 4 coll each
about 100 spec. = total
about 1200 specimens.
Further 4 coll seeds
respectively 328, 310, 321 &
256 all well ripened
& fresh. I put also some
printings in & forwards

a few weeks ago, other
printings by a friend
who happened to send
things by an American
vessel to New York
Capt Emerson has the
kindness of taking
also care of a small
packet containing
some copies of V frag-
ments for distribution
to you. The box was
closed by the transit
before I could get
them from the printer.

I am in possession
of you excellent
little work, how
plants grow?
If there is any of
your scientific

McCluskey's test &
zoology. Garden,
17 June 59.

My dear Prof. Asa Gray.

I beg to acknowledge
the arrival of the spec-
imens & seeds, which so
kindly forwarded &
which have given me
the greatest pleasure.

The specimens particu-
larly well, - from the
hands of so many cele-
brated Botanists - of
great value to our
collections, which are
excessively poor in N.
American plants. Will you,
or Mr. V., allow me
to suggest, that any
further sending you

may favor me with
should be packed in
a hermetically closed
case, because for instance
in your last collection
many specimens were
greatly injured,
which is a pity when
one thinks how beauti-
ful they must have
been before damaged.

I have no doubt
you received by this
time my consignments
of books, plants &
seeds, which I forwarded
some months ago.

With sincere regard

Dear Professor,
your very humble
assistant
Geo. Engelke

must with the mole-
cases of your north
Oak & Elm - forests
Will you be so friendly
to allow me to suggest,
that the ripe & air
dry acorns & pine seeds
would best travel the
long way to us in clean
coal casks, and that
it never will be safe
to forward on a long
seaway *Sideroxylon*
or bark except in
hermetically sealed
tin-cases. The other say
^{the contents of} a box received from
London with books
& seeds were totally spoiled
not even honorary diplomas
wrapped up in wax-paper
excepted. ^{Our quarters with}
thousands of seeds & plants

Melbourne Aust. &
July 13. 1859

My dear Prof. Wabray.
I reply to your kind
letter dated 18 March
so I have to inform
you that both your
kind contributions
safely arrived & were
most gratefully received,
and that I shall
be exceedingly glad
to continue the inter-
change of specimens
seeds, carpological
collections & botani-
cal publications

with so liberal and
enlightened gentlemen
as the North Ameri-
can Naturalists.

There was sent some
time ago a ^{large} box with
specimens, seeds & pam-
phlets by the
an American Clipper
whose Captain generously
and patriotically took
the consignments free
of expens. In this way
the American Captains
are far more obliging
than others. The com-
munit at the end of the trip.

I am told that there
is a fodder grass in
North America,

which attracts much
attention on account
of its constant verdure
& exceedingly prolific
growth and which I
am told would be of
great service to these
colonies chiefly in
barren localities ex-
posed to draughts. Could
it be the *Cratichneumon*?
Any good economical
seeds I would much
be gratified to receive
for the more general
benefit of my fellow
colonists.

Many thanks for
your very kind &
obliging promise to
provide my establishment

come through Dr
Macadam.

With my sincerest
admiration & regard

I remain, my very
Respectful
your attached
frd. Muel.

There is great de-
mand here for *Poda-
phyllum* as a
nutritional bark.

Could you favor me
with a few seeds?

Melbourne Est.
Ozark Garden
17. Nov. 89

My dear Professor
Gray.

I was equally de-
lighted with your
kind letter and your
valuable contribution
of plants & send me
"Gambusia" & am espe-
cially indebted to you
for the singular
Chilensis. The sum-
mer publication, all
of depth & clearness, tes-
tify to the great assid-
uity and profound
knowledge, which you
display, and I congrat-
ulate myself that

you could be induced
to enter with me
in a so frequent
intercourse of exchange
& correspondence.

I hope to be able
to make up at the
end of the season
(Febr. or March) a
large collection of
dried specimens
& seeds. Meanwhile
also the first vol.

(containing the Lami-
florae) of the plants
of Victoria? & also of
the fragments will
be out, & my reports
on the garden and
also on Mr. Stuart's

plants from the
N.W. interior of
South Australia.
The phil. Instit.
here begs to offer
its most grateful
acknowledgement
to the academy for
the liberal donation
of your volumes,
so replete with im-
portant information,
& only regrets, that
our young society is
not yet strong enough
to offer an equivalent
acceptable to the
scientific sum of
your great state.

The official ack-
nowledgement will

Eucalypti, just issued
With my most
sincere admiration
& attachment,
my dear Dr. Gray,
your humble
servant Wm. Muhl.

The *Cereus giganteus*
has grown beautifully
& is now in the prof-
fusion of many gardens.

Melbourne last night
Gladstone
16 May 1860.

My dear Prof. Gray.
My principal reason for
addressing you today con-
sists in bringing under
your notice, that a
box with dried plants
seeds & the last num-
bers of my fragments
also some sheets of
my flora & plates &c
was forwarded to you
under care of Capt
Cate, Commander of
the Ship "Black
Sea" bound in a few

from Sydney
days for New Bedford
I regret only, that
the collection of plants
is not more worthy
of your acquaintance. —
It will however
eventually be followed,
si fata velint, by
a more extensive one.

Always full of
innocent wishes for
this establishment,
I would beg to solicit,
that you will, kindly
send me, ^{W.D. Kuhn} when in a
dormant state, of
such species as are
close at hand. They
will be both useful

& ornamental.

Dr. Steud. some
time since in one of
his ingenious & learned
letters wrote with ad-
miration referring to
you, says of you:
botanicorum facile
primus, a judgment
in which I fully con-
curred, & which you fully an-
ticipated & after Mr. W.'s
labours & illuminations.

A most excellent &
kind friend of mine,
Mr. Hooper, a Mer-
chant of Melbourne,
now permanently retur-
ning to the U. S. States,
has kindly taken charge
of the elaboration of
the illustrations.

I am highly gratified
In the hurry I printed
just at the mails &
forward a few *Cuscuta*-
fragments for the worthy
Gleason & accurate
Dr. Engelman.

Can I serve your
Academies in any way?
The first vol. of my
plants of Victoria's
gardens with illustrations
will be distributed by
Lacouroux to the prin-
cipal Academies &
Libraries abroad. It
finished the *Thalassio-*
flora on 180 pages.

Ever with deep regard
my very dear Sir
your attached
friend

McClure's bot. &
journalism
25. Aug. 1860.

My dear Prof. A. Gray.
The parcel, which the
obliging Commander
of the "Lucknow" took
care of reached me safely
& I am under great
obligation to you for
so interesting & valu-
able addition to my
herbarium, for which
in due time I shall
endeavour to reci-
procate.

I observe that you
did not open the
parcels before depar-
ting them, hence a

package of specimens
sent of Ramm.
Pursh, of Carice
& of Gramineae &
small Cyperaceae
intended for yourself
came to Australia
from whence they shall
be returned at the
very first opportunity
of securing them safely
back. I suppose I
may keep them, until
my next consignments
arrive, which I will
make up in the be-
ginning of 1861 (or later
unless), when I hope

to have returned
from two exploits
I intend making
for the sake of geo-
graphically & phyto-
logically exploring 2
without interruption
part of our territory.
I am much obliged
for your friendly
information on the
Tobacco dactylodes,
and would be very
glad for roots of
it, which would
well travel in a
small glass case. ^{Pray}
^{pass on my thanks to you}
Your seeds arrived
in most excellent
condition! For the
botanical printings

To there any possibility
of introducing the
Weever from N.
America?

McKinnon bot. &
guthrie
24. Jan 61.

My very dear Professor.

I took the earliest
opportunity of in-
forming you, that
I have through a
friend, Mr. Stephen
of Seelburg, forwarded
to you the pair of
plants, which ac-
cidentally came into
my hands, but even
oddly for your
herbarium. He left
by the Lord Raglan's
a few weeks ago
& will sail cross
after his arrival
in England.

the Atlantic

He has also charge
of a few papers for
you, I think also
of the report on the
Kewerkin plants, in
which I had an oppor-
tunity of referring espe-
cially to your admirable
work on the U. S.
Explor. Exped.

My report, descri-
bing the results, both
geographical & phyto-
logical of my last
alpine journey will
probably by this mail
go to you. That I
found a new genus
of Vacciniaceae, i.e.

Wittsteinia vaccini-
acea, will interest
you. When returning
from my autumnal
journey I shall send
the root amounts of
specimens I have to
give away, & cer-
tainly I will pay them
my debts to the ex-
cellent men, who
so liberally have en-
riched our public
herbarium with
American species.

Can I serve you,
your scientific friends
& acquaintances in any
way, pray command
my services.
Yours ever attached
J. W. Wulfs

Would it be possible
for you to cause
the following ~~2~~
subscriptions to
be sent inserted in a
Boston & New York
journal? I am
requested as Vice
President of our
Liberation Society
to attend to the
circulation

With the sincerest
feelings for your
health & happiness

Dear Dr. Gray

Yours
J. W. Weeks

Melbourne has
your name
24. Jan 62

My dear Dr. Gray,

I can assure you, it
is with feelings of
the utmost sympathy
that I look across
to your country &
think of you, well
imagining how much
the terror of the
war must interrupt
the labours of the
philanthropic philo-
sopher & must with-
draw from him the

amplitude of support.
My principle reason
for writing this
day exists in
the profound desire
of expressing my
sympathy for you,
then also to learn,
what route you
would desire to be
adapted for ^{sending} such
botanical specimens
as I am now pre-
paring for you &
your botanical friends,
of whose generosity
we have so greatly
enjoyed here in
adding to our collection

I am looking that
you brought *Why-
tidoussa* (*Scaevola*
ginnii) to Man-
gicac before I found
the plant myself.
I think I mentioned
to you before, that
I discovered *Myrica*
here also.

I have just finished
the 1 vol of my
plants of Victoria
and the islands of
the fragments. Both
will be sent to you
as soon as I learn
that I can do so
with safety.

I allow me to remark,
that, as I have pointed
out in my report on the
plants of the Bessiekin
Exposition, carpological
notes of, I think, considerable
importance distinguishing
the two genera. *Echites*
scabra has upon these
to be removed from *Lycan-*
on to *Tarsonus* in. You
had probably no fruit
of these genera yet for
comparison.

I am just finishing
the 2. vol of the *Fragments*.
— my flora ^{of Victoria} was once
by you under the care of
a friend, Mr Osborne,
in April last. I hope you
received it and that it
met with your kind accep-
tance & kindest judgements.
Ever in sincere acknowledgments
yours for. M. M. M.

Melbourne
Bot. Garden
25/3/69.

Dear Professor Gray.

It was quite touching
to my mind to receive
your last note, indica-
ting the transmission
of a new and highly va-
luable acquisition of dry
plants for our herba-
rium. Under ordinary
circumstances it would
have been a most grati-
fying gift, but it being
one of inestimable value
when it is considered,
under what enormous
difficulties and anxiety

a man of science has
now to pursue his
path in your country.
By arts like these you
have drawn yourself
again as one of the
worthiest sons of science.
My heart can be re-
stored to your suffering
country. With it science
will regain doubly its
charms!

At the eve of my
departure to Europe,
where I go for one
year, I hope to arrange
for the transmission
of an other consigna-
ment of plants to you.
Should I in the mean-
while engage in any

department be unable
to send them, rest assured
that after my return
there will be commercially
attended to, especially
as the duplicates will
be immediately packed
& much in the interval
will arrive from ~~some~~
our collector in N. E.
Australia.

You have also been
so kind to send me
some of your recent most
valued & ingenious pub-
lications, for which I
have likewise to tender
my best thanks. Those
for Dr. Hauss have been
forwarded by this mail.
You are inclined to base
the characters of *Lyonsia*
& *Parsonsia* on the
structure of the flower.

for whose future
I entertain much solicitude.
I fear, I shall not be
able to write to him
by this mail, but in
time to do so by the
next.

N. E. Australia, especially
the virgin forests about
Rockingham Bay pro-
mote to yield yet
many additions to the
Australian flora. I
have from them *Urosia*,
Calagnum, *Trigonostema*,
Wuzania, *Ligustrum*, *Cacla-*
gnum, *Tinnaria*, *Argophyllum*,
Goniolobum, *Tetraria*, *Astro-*
phyum, *Solanum* &c &c. In
side many well marked
new genera. Prof. Deane has
seen no end of the Sierra Nevada.
your most affectionate son
J. D. Hooker

Malbairna
Wes. Garden, 25/4/65

I have no doubt, dear
Prof Gray, that you
deem me most ungratefully
& most forgetful of my
obligations, because I
have been so long silent
towards you & not even
acknowledged any collections.
I can little say to vi-
vify myself beyond
that I have been kept
excessively busy in
my large repurchase
of extra series of
varied kinds & since
Christmas last in
endeavouring to aid
the Ladies in sending
out their ^{search} relief ex-
position after poor Leitch's

So it has been only
lately, that I forwarded
through a forwarder
payee of this garden to
you a parcel with
about 500 dry plants,
mostly to grow my
poor will. I all have
even the prospects
of growing this winter
a good deal of my
time in my Museum
of distributing duplicates
from these; also I
have to send you
some of my recent
publications. The
5 vols of the fragments
is commenced & I am
about shipping the

I of pines I have planted in an other place - many
more 12,000 many Californians, but unfortunately
many of the latter are of the same

Compositae for West-
framed 4th volume.
Your horror was
discouraged to some
extent insurance
of all kinds, but I
will send my col-
lections via London
for safety's sake.
I have now planted
in one of the reserves
of the botanic garden
an oak forest of
about one thousand
trees; and several hun-
dred of these now exist
from the acorns you
so generously sent *)

Mr. Brown has
written to me & expressed
how kindly you receive
him. It is a very an-
xious & thoroughly honest

though Dr. Hugo Per-
varium, which passed
into my possession,
has proved also rich
in N. Amer. species. Still
of course it is but
a very imperfect series
of the actual species ex-
isting in your vast Terri-
tory, & new explorations,
such as Prof. Baines
must have largely added
to the series.

The 5th vol of the
fragments is about
half printed & con-
tains mainly new plants
from N. S. & Australia
of Favian type.

Does your Boarding
require anything from
here? Ever your
J. W. Muller

23/8/65

It looks, dear Prof.
Gray, I shall have
an opportunity to
send a consignment
to you directly by
the, Patrick Henry,
which ship is to sail
in the middle of next
month for New
York. I will dis-
patch a box with
dry plants, contain-
ing among some less
rare plants a good
many from the Tro-
pical east coast of
Australia. There will
be also some duplicate
of dry plants & like

receive a quantity
of seeds. I shall
take the liberty
to enclose a pair
with reptiles &c
for Dr. Agassiz's
museum.

Through Dr. Sauer,
you will have received
some of my new va-
lume sent on the
9. from Mr. Searcy
& London. Through
Mr. Osborn, my dear
and intelligent friend,
you will have got
some other publications,
which he kindly took
with him for you
when he visitedustra-
lia. Dr. Sauer will
also have sent you a

collection of 359 no.
of seeds. Now since
peace is restored in
your country, new
encouragement will
arise to pursue
scientific researches
I will do my best to
furnish material
for your museum, though
my engagements are
so numerous, that I
cannot go any longer
into the field myself,
nor get much leisure
to make up replicate
collections. But I will
do what I can. I feel
I am largely in your
debts, for there is a
brilliant display of
N. American plants in
my museum, owing
to you,

with conveyed
from Henry to you.
The agents of the
Ship here have
kindly placed it
on the packet; there
will be consequently
but a moderate
charge for clearing
express & freight
to Boston. I will
however gladly bear
this also. The case
contains a large mass
of crudely dried &
therefore unprepared
algae, enough to make
thousands of spores.

Are the American plants nearly all dead?

Melbourn - Mass
Jan 24/1/66.

My very dear
Professor

Peace once more
greeting an your
great country, I
cherish the hope,
that science with
its invigorated
spirit with as vigor
in your part of the
globe, where science
in natural history
remains so much
to be achieved. I can
understand, that Prof
Henslow's discovery

from the highlands
of California will
absorb all your
attention; thus you
have perhaps neither
card to receive
much from here,
but even the errors
of war not disturbed
the calmness of your
purposes. I feel
however that I
should endeavor to
come out of my shell,
which through your
generosity I have
incurred and thus
I should strive to

deserve the con-
sideration of your
benevolence of which
I have been always
conscious. As a first
instalment of my
new reciprocity
I have sent off a
good sized case
this day per Ship
Donald McRay, adre-
ssed to my agents
in London, Messrs
Botham & Blackitt
Cox & Quay, Lower
Thames Street who
have been instructed
to see the case forth,

an two Rodents
occasions recently
a lot of plants.
Not having heard
of their arrival
I fear the cur
has upset affairs
also thus far the
our little assortment
affairs sent to
prish in its cru
shing hand. I am
glad at considerable
disadvantage in
putting shipping
from here, is as
much as we have
ever sent appar

snobs. All these
are from Port
Phillip Bay; fur
ther a few prints
of West & Co's. Bank
note, a lot of maps
of our friend Macgillivray
(unnamed) a few
prints, 33 kinds
of ants in large
quantity for distri-
bution (for which
I might perhaps
receive pine acids
Walnuts, Irons
& other tree acids
in return), ^{*} some
murder of birds

For a large collection of the above articles

barium plants
the specimens
of which may be
useful for inter-
change and a
parcel of dry
plants for the
bot. Society of
~~California~~ Toronto.
Perhaps some of
the seeds might be
sent to California,
from where pine
beet of any kind
will never come
anew, as I am
anxious to establish

I have sent several parcels of dry
plants to Dr. Pringle, but he also has
sent me several parcels of dry
plants from his collection.

the first of these
some dry extending
in Australia and
have them to rely
on succession in-
stitution of seeds
have sent the
new lithograms of
dry plants (70
plates) the 4. vol
of my fragments,
my little book
Darwinian work
and the Chatillon
Vegetation & other
of my recent pub-
lications & you, also
some time ago

Pray leave me
with an occasional
line & let me
know your require-
ments. Let me
also ask you to
accept this little
portrait & return
for it yours for
my series of like
images of befriends
great co-workers.

Ever yours
affectionately &
graciously
Jas. M. Smith

I am preparing also
collections for Prof. Agassiz

permitted to send
you none except
to England, which
all my continental
friends & all
my American
friends have of the
opportunities to
afford direct ship-
ments.

My engagements
in this department,
multifarious as they
are, leave me but
little leisure; yet
I manage to give
some aid to Bentham
for the (photo) plan
elaboration of the

& I have nearly
finished the 5 vol
of the fragments.
I hope this win-
ter I shall be able
to sort all the
specimens in my
museum for dis-
tribution & will
not forget your
kindness on the
occasion. - I have
many beautiful
specimens to give away.
My ^{small} collection
comprised now
nearly 300,000 spec-
imens & though
it is through your

liberality rich
in plants from
the eastern states
of N. Amer. I
possess but little
of California &
absolutely nothing
from the Sierra
Nevada. If being
a state collection, ad-
ditions will
be so much pre-
served. If therefore
you have still
anything out of
Prof. Brewer's col-
lection to spare
I shall gladly receive.

I cannot express
to you how eager
I am, my dear Mr
Piper, to know per
come more of your
work Oaks & pines
to this country. In
my collection the
Oaks raised from
the above kindly
sent by you are the
predominant feature,
still how few are
it, if compared with
A. DeCandolle's list.
Of Pines I possess
scarcely any but
some of the Californian

Melkman bet.
Garm, 22/9/88

My dear Professor.
The restoration of peace
in your magnificent
country encourages
again to resume direct
relations to men of
science, relations which
during the turmoil of
war could not be
continued without
fear of intrusiveness.
I am you some little
time ago to get out of my
debt to some extent,

and I trust that
the collections of the
department will have
so far been put
into order, that I
shall be able to offer
a good list of plants
this winter for
your museum.

I have of late seen
and purchased ari-
ginal collection from
his son, the collection
is kept for private
use & thus I have
now by far the most
complete collection

of Australian plants.
Since the issue of
my last report
(of which I trust
the transmitted copy
arrives) I have
discovered several new
genera & proved
Connarus, Booneng-
odon, Cakile, Cassia,
Andirrhoea, Labra-
thae, Ophiorhiza,
Marrattia, Anziptine,
Deparia. ^{& belongs to the M. G. flora} Among the
new genera *Archidra-*
don near *Affonoca*
with 5-15! carpels
is perhaps the most
interesting. It has really
pinnate leaves

is ones. The 5th
val. of my fragments
will ere long be sent
to you. Will collection
of ours for dispo-
sition in the southern
states be of utility
to you?

Ever your grateful
& respectful

Jas. Munroe

Now I would wish
to add your picture
to the collection of
portraits I have from
the hands of celebrated
friends.

Spices & yet nothing
could be of greater
value among the trees
to be imported in
this country. Trust
you have favorable
facilities to spend
£10 or £20 a - in getting
across a pine cedar
brush collected & pre-
pared for an early
shipment, I should
feel very much
indebted for your ob-
liging generosity in
giving an order for the
same & the fund bank
at once be transmitted.

My great aim
is to bring the
most useful trees
from all parts of
the globe together
into my parks for
appearing future
man to select from
them for forest culture
indispensably. I have
many articles from
the *Arboreta* current
time, but few Oaks
of Asia. Still North
America must be
the main source to
enrich my collection

from. What are
the principal avenue
trees of the State
for lining streets
roads or walks?

Pray let me know,
what I ^{can} send
you. ~~Mostly~~ ^{undoubtedly} Can you
command any thing
within my reach.
The establishment here
is so young & to raise
it involves incessant
work. But as every
thing becomes estab-
lished presently
more leisure will
be left to carry
devotion towards
friends to practical

any occasion, when
across through your
generous kindness are
again available to
by this method
of packing inside
that of sending the
across in canvas bags.

24/5/66

From the enclosed
print, dear Prof
Gray, it is very
doubtful, whether
the consignment for
Patrick Henry
ever reached you.
If not, as I fear, I
have still more
cause to claim your
indulgence for not
sending you more
contributions towards
your collection.
I will however

not in all future
remain in your
debt.

I took the liberty
to give to the un-
worthy John O'
Shaughnessy, who
was then prime
minister a letter
of introduction
to you. Will you
have the friendliness
to cover this, our
best, Statesman
some with attention

when he comes to
your city & draw
him with a few
introductions.

Accept my best
thanks for several
publications you
kindly sent me.

Yours respectful
Jas Munton

Dr. Kossich writes
me, that he kept
awake for four months
in vitality by being
packed in moist clay.
It might be well as

them in the Amer.
Acad. of Science's
proceedings. For
your noble liberality
I am most grateful.
I shall always cherish
them with veneration.
Be not so pleased that
I thank you with
the kind transmission
of a small sending
to the W. Society
of Concord & the
Academy of Chicago
I have purchased the
5 vol of the Poems.
But it ^{is} not yet bound

Melhorine Co.
Harrow, 10/1/67.

A fair opportunity
presented itself,
dear Professors, to
and you some can
sign must & though
I had but short
warning and though
I am extremely busy
with additional
duties for the Ex-
hibition, I will not
allow the ship to
go without some

thing for you &
Prof. Agassiz
I send a few
collections of
dry plants &
some unprepared Algae.
It will not be be-
fore the winter
which for me
to sort spare-plants
regularly. I wished
to do so long ago, but
a succession of
extra engagements
prevented it. I
forward also some

seeds, which may
prove acceptable
for interchange in
the Southern States.
After arriving &
pine-seeds I have
still a great con-
ging. The Penna.
mail Company has
generously consented
free transit for my
department. Hence
facility for commu-
nication exists.

You have most ge-
nerously felt with
my poor works,
when referring to

I have also given
a complete enu-
meration of all
known Australia-
nities.

Europe I have re-
turned to after, after
a careful examina-
tion of many European
American & Asiatic
plants.

I continue ever
your respectful

Friend

It contains many
remarkable plants,
e.g. a *Pithecolobium*
with ⁵⁻15! carpels,
a leafless *Sarcoc-
chilus*, a new genus
of *Phyllocladus*
(*Delinholzia*),
a *Xanthophyllum*
with albuminous
seeds of 2 cotyled.,
species of *Stemona*
^{Tetrastema}, *Engelmannia*, *Prasium*,
^{Cakile}, *Utricularia*, *Stemona*, *Gau-
dia*, *Cassaria*, *Euony-
mus*, *Hemicyclia*,

Alcurides, Conna
rus, Spongyglossus
Penanthe, Ophio
chiza, Coelospo
rium, Eupatorium,
Agnosum, Thun
bergia, Crotopia,
Geniobium, Ligustrum
Arctia, Choripe
salum, Phacsa, Pan
dolgia, Memorialis,
Cylindrophloe, Cirna
monum, Repenthes,
Podanopsis, Dymal
perium, Calceagum,
Dollia, Pholiotos,
Pogonia, Angioparvis,
Maifatta, Deparia
& other genera not

formerly known
to be represented
in Australia. There
are many new
genera, Pagetia near
Positona with many
ovules & no albumen,
Hedraienthera among
Celastrinae with
secoile anthers, San
cugia & Carthagen, re-
markable genera of
Erodaceae, - Gillicha
a remarkable genus
of Cunoniaceae, Faradaya
near Vitis, Atkin-
sonia near Myrtia,
Ralphia near Rham-
nus,

algae & about 1000
dried plants divided
into 4 collections,
the largest contain-
ing about 300 species.

(The v. pl. = Isabella
Bumel)

Since writing I
have received the
first proofsheets
of Compositae of
vol. III fl. Austr.
Nenthorn has too
far removed the
genera. This seems
to have arisen from
an idea of that
great phytographer
that none (& I
must add in this case
also-) typical genera
must be avoided.
I have failed to
see the force of
the argument.

My views lead
me to fair equi-
valuation of genera
in characters. Thus
I deem *Nellis* &
Prodris one genus
or a ^{few} ~~genera~~ ^{or a few} ~~genera~~ ^{or a few}
Aloria &c; but
I cannot in adopting
such amounts of characters
for a genus bring
all *Angianthus*
under *Myriopholus*,
Angianthus, *Gnephosis*,
Calcephalus, *Apha-*
ipterum, *Gnaphalodes*,
Craspidia & *Chthono-*
phalus! only 8 genera.

Such reductions
seem to me no gain
for facility of work
& only augment the
already overburdened
synonymy.

The parcels in the
Cob are
1, for Chicago
2, for Prof. Lawson
3, Bot Socy of Canada.
4, Dr. Michx., San
Francisco.

The rest consisting
of seed, of *Orchid*
subul which if
planted immediately
will flower in
a few months.

us to go on.

Let me remain with
sincere regards

Yours
J. M. Wether

Without wishing to be
immodest pray let
me ask what can
be done in my power
to secure Melantherium
ludlowi for
Australia.

Mt. Sedgebrook. 20/3/67.
My dear

The enclosed bill of lading
shows you, dear Prof.
Gray, that again two
consignments have been
passed by my London
Agents. I trust they
will give pleasure. Your
illustrations, catalogue
might give perhaps
an enumeration of
all the fishes I sent.
Alcohol being now so
expensive I have not
outstayed and hundred
guineas alone for va-
rious ichthyological
collections. I sent to
different museums,

and to my knowledge
not a line is any
where written on
them. I spent in
the course of the
last 20 years about
one thousand pounds
buying for zoological
collections for dona-
tions & yet science
has scarcely had any
benefit of them.

My agents in London
have refrayed the
freight alone to Boston
Twenty two emys which
is measured are nearly
half a ~~hundred~~ thousand

feet high! Can you
kindly furnish me some
exact data on Sequoia
Wellingtonia for the
sake of comparison.

This winter I shall
be free for Museum
work & I will send
you many plants from
Tropical Australia;
perhaps you could
give me some Cali-
fornian from the excellent
Prof. Brewer's collection
in exchange.

A rich list from Agassiz
on all Australian matters
would be a boon for
Coral Zoology & a basis
of operation & encourage

8/6/67

Dear Prof Gray,

In rearranging the
immense extraordi-
nary Herbarium here
I find several omis-
sions in R. & G. gen.
vol. I & II & I am
thus induced to ask,
whether you have
furnished or published
any additions or cor-
rections to this good
& important work.
I have sent some
notes to the authors
& in R. & G. gen. xv. J. Müller

has furnished also
supplemental data.
Would it not be
well you surrised
any observations of
yours briefly accepted.
Thus an Australian
phytographer has
but little knowledge
of American plants.
Let me ask thus
for instance what is
Desmonema (Rafinesq.
Verb. 28 (1838) quoted
by J. Müller? What
is *Forschhammera*?

goodness get many
of our tropical species
this time. The vegetation
of this continent brings
gradually many interesting
forms, thus lately added
vanda, Erythra, Suricea,
Cucurbita, Cissampelos,
Spathoglottis, Dracaena
(from Coryline, in tibia, albumen
& Embryo different), Graphis,
Gynerium, Thunbergia,
Bambusa, Chrysophyllum,
Baccharis &c

It is delightful to contem-
plate, that you will give
us a synopsis of Mexican
vegetation. Your Manual,
you so kindly sent, will be
a boon to me. It will bring
so many well measured
enlightened & expansive
views

5/2/68.

Just almost at the close
of the monthly mail, dear
Prof. Gray, I receive simul-
taneously your most kind
letters of the 15. Nov & 2 Dec.
I feel quite ashamed having
an so great a man as you
burdened such enormity of
work in obtaining through
your friendly aid some of
your noble American trees
in quantity. I feel almost sorry
now having made such an
inconsiderate inroad on your
time, and the only consolation
is, that you may - and I trust
you will - one day cross the
pacific ocean & on a visit
here enjoy the shade of trees
we raised through your good-
ness. The walnuts came on
so excellently, that I have
to build like for your oak

a special large nursery
shrub, there being then
special orders, one for
Cinchona, 1 for Chinese
tea, 1 for Pine, 1 for Oak
& now 1 for Walnuts. I
think of Cinchona I might
as have mentioned, that in
all likelihood they would
grow a great acquisition
in your cotton-country,
i.e. in the rich forest glades
of any plantations. I
have had my plants
mostly out last winter
(altogether I have about 10,000
plants of various Cinchonae)
& I find that *C. Condamine*
will bear a temperature
of 31° Fahrenheit. The
dry summer heat that
spies no stead in

children but otherwise
open valleys also.

It is most kind, that
your friend Profraton
will spend time on the
Algae. Perhaps it is a pity,
still it is a useful
& at the same time re-
creative labor after some
mental work & will lead
to extended knowledge
in this branch of science.
I have a large case now
packing for you with
Phanogamiae, but I am
still engaged in preliminary
labors on the 4th vol of the
flor. ofsects, to comprise
the Monopetalae (one
compositae) & thus my
distribution of Museum
plants goes on slowly.
You will however as a slight
recompense for all your

To Prof Eaton, Mr Ostrom,
and Prof Agassiz I can
only send this time my
salutation, but I will write
soon to all these excellent
men.

In the box, which I am
packing, I will enclose
several packages of seeds
as a summer gift to those
generous donors who sup-
ported your movement in
my favor. Our *Boerhaave* &
Chalcidius insects & their cells
with southern dates &
as all these trees are useful
in some way or the other,
they would not merely be
objects of curiosity.

I am rapidly proceeding
with the 6th vol of the
fragments; the 5th will
have been received by you
through your excellent

Colonel, the General Lathams
who with his family
occasionally honors me
with his visit

The package of Pineapples
by the Panama mail
~~is~~ will probably arrive
in the course of this day,
but not in time to refer
to them in this letter.

To Mr Peabody I feel
very much obliged indeed.
Indeed I feel quite touched
with all your kindness
there. I have only an
Inch of Pineapple & a little
yet, an important one just
yet in bearing - not likely
to bear for years to come.
Neither have I large
plants of P. V. Watson

We require in this
country such small
trees in masses for
all the various public
plantations for and
war.

Have only much cordial
& grateful salutations
yet & my best wishes
for your health, happi-
ness & the glorious
progress of your
labors. Yours truly
J. M. Muller

Through Dr. Sauer
you will have
received the atlas
of Victorian plants
& the 4. vol. of the
Procyonites. The little
book on the Chat-
ham island vegetation
must have reached
you before. It is
anti-darwinian in
its tendency. The glorious
morning deemed its
arrangements of
sufficient importance
& made them a
topic for a discourse
at the Munich Sta-
dium.

If you desire
it I could readily
send a large cask
of crumbly dried
algae, if any Ame-
rican phycographer
deems it worth
of his trouble to
prepare the pro-
minia there. To
show any book or
document I can
send to your library?
or any specimens?
and am I right in
transmitting (in
palm case of direct ap-
proach) via Canada?

and receiving descrip-
tion. Your & Prof
Brewer's examina-
tion of the plants
from the highlands
of California must
prove delightfully
enriching. So
gradually we become
acquainted with all
the organic forms of
the globe. In the
Pacific the River
now gave of the
10,000 plants which
constitute its flora.
You have been so gen-
erous to my establish-
ment, that it would
be an abuse of your

Kind also wish I to
ask for anything more.
Yet I venture to re-
mark, that I am striv-
ing to make our State
Museum, to which I
make my own a dona-
tion, as large as I can.
I commenced collecting
at my 14th year
in Denmark. Dr. Steff
collection I purchased
& I have since changed
since 20 years with
his friends. By their
efforts I have accu-
mulated about 300,000
specimens & can therefore
work here locally
with comparative
indifference.

End with profound
veneration your
J. S. Muller.

Contents of Box
Shipped to Prof. A. Gray
by the Somersetshire.
3/8/68

2 packages miscell. plants.
5 - West Austr. plants
4 - plants from Queensland
vol III & IV fragments
295 spec. miscell. Austr.
seeds.
20 - Austr seeds in rather
larger lots.
a few seeds of *Sporia*
lychnantha

for Prof. L. A. C. Brown
1 package plants of
N. E. Austral
1 package ferns.
A series of papers &
documents of the Mining
Department for A. Gray.

Prof Eaton 1 parcel
Kings Island
Algae

Prof Gray.

1 parcel with
miscell. suber
plants, contains
very large num
ber of Earth. Radi-
olaria in duplicates.

21/2/69

Assure, dear Prof
Noa Gray, that you
are staying now
at Kew, & beg to
ask, whether my
large box with mu-
seum plants and
some seeds ^{for you} has safely
arrived. Perhaps
in your prolonged
stay from home,
it might be desirable,
that some one of your
friends would unpack
the case, and not
allow the seeds to
lose their vitality.

I have with a little
army of young Ameri-
can Oaks & Walnuts
now through your
generosity & circum-
stances.

With highest regards
Frederic Muller

17/6/69

I have to thank
you, dear Prof
Ada Gray, for the
kind transmission
of the very valuable
document, which
you, with your
usual skill, have
furnished on the
plants of our
Fedeas Breuss
and Bolander

It was transmitted
to with some
dry plants of yours
~~by~~ and poor Horace
Mann, by the poor
lamenting mother
of the latter. I will
write to the poor
Lady by this mail.
Dr Engelmann sent
also his critical
Juni & the memoir
he wrote thereon.

Everizing you of
your kind engagements
I remain yours & wished
Friedrich Muller

It seems Dr Engel
mann went to
Europe. How will
you kindly ask him
for the receipt of
his Juni, when
you happen to
write, or give me
his address

Chenopodium. Possibly the
oils may occur in
your salt plains, or —
such as *C. hirsuta* (*Kochia*
hirsuta) may become in-
troduced. To this belong
the wingless *Kochias*, with
or without spines. Indeed
the winged *Kochias* are
hardly more than a var-
iety of *Chenopodium*, in ac-
cord with the wings on
some of the flowers al-
most occasionally un-
developed.

Can you favor me
with a few flowers and
fruits of *Galax* in a
letter. I wish to compare
the genus with some
Australian ones.

Send the same to me

McKinnon
hot garden
5/5/92

I write only a few lines,
dear Professor, to keep
up correspondence. I have
to send you many things
but must wait till I
get the chance of a ship
sailing direct for Boston
or New York. With ex-
treme interest do I look
forward to the elaboration
of the Californian plants
through yourself! What
a treasure that will be
to phytographic literature!
There are two or three
genera about which I
wish to say a few words,

as likely they are re-
presented in the Calif
Vegetation.

Blitum. This I have
reduced to *Chenopodium*
as the position of the
seeds cannot be relied
on and as the calyx
becomes more or less
succulent ^{also} in ^{some} other ~~the~~
~~suborder~~ *salsolaceae*
genera. Thus ~~not~~ all
among *Atriplex* we
have the *A. semibarra-*
tum in which the sepals
(particularly in their
lower part) are getting
as succulent as possible,
being hoarse colored ^{beautifully}

crimson. You are of
course well aware,
that many *Blita*
have the calyx as dry
as any *Chenopodium*.
Blitum virgatum I have
called *Chenopodium*
Blitum, as there is already
a *Chenopodium virgatum*
of Thunberg from Japan.

Spinum. This must be
so far enlarged as to
include at least a
portion of *Helosciadium*,
as now adopted synonymously
by Wuthen & Hooker.
Thus I referred *Helosci-*
adium leptophyllum
to *Spinum*.

I should feel also
obliged for a few flowers
& capsules of *Sarcocolla*
obovata, to be utilized
for my supplement of
the "vegetation of the
Chatham Islands"; for
this work the num-
ber of cotyledonous plants
has become doubled by
Mr. Francis's last voyage,
but the additional spe-
cies are almost all
identical with New
Zealand, while many
interesting and remarkable
novelties from Lord
Howe's Island have
passed into my hands.

If any friend of yours
living on the coast
of the U. States would
scatter simply the en-
closed seeds over the
sand in some gully and
cover it with a few
twigs, he would be
sure to see a very
important plant arise
on your shores.

Always with best
regards

Frederick Mueller
Would you kindly furnish
me with a few supplementary
notes for my tree list, also
ask the excellent Dr Chapman
to do the same.

Melbourne Botanic Gardens,

26th August 1862

SIR,

I have the honor to acknowledge the receipt of—

1 package of dried plants from
Dr. C. L. Anderson of Carson City

1 package of dried plants from the
collection of A. H. Curtis of
Virginia

which you have been pleased to present to the collections of
this establishment, and for which donation I beg to tender you
my best thanks.

I have the honor to be,

Sir,

Your obedient Servant,

Frederick Mueller,
M.D. Director.

Professor Asa Gray, M.D. &c

McKinnon
Los Gatos
26/8/72.

Yesterday, dear Prof
Gray, I got the packages
of Museum plants, through
your generous interven-
tion secured from Mr.
Curtiss and Dr. Andri-
son, and obligingly brought
by the Captain of the
Ship Burnside. Both
contributions are a
splendid additions to
my Museum material,
and I will make a con-
tributing as soon as I
have a fair opportunity

This occurs rarely direct
to Boston; or I may
perhaps avail myself
of the San Francisco
Line for the purpose.
The account will be ^{always}
a great boon and to
any note. The wood
specimens for your
own purposes shall
gladly also be forwarded.
Always with respect-
ful and grateful remem-
brance yours
Frederick Mueller

The "reluctant plants" sent
by last ^{improvement} mail may prove
also useful to your southern
states. Any additional

notes to that publication
and my ^{former} list of contributors
would be incorporated in
an early ~~my~~ ^{supplement} supplement
and gratefully be ack-
nowledged. Prof. Torrey,
Prof. Brewer, Mr. Eaton
others, Prof. Chapman
may feel inclined to
furnish also kindly a
few supplemental notes.

Mathias
has given
8/2/72.

Will you allow me
to remark, dear Prof
Gray, that when I
was working on the
halter and North
Sea (1840-1846) I
had ample oppor-
tunities to see the
clear distinctions
between *Poa maritima*
and *P. distans*.
The former is a
tough plant &
has a long creeping
root, which never

is easily secured
by pulling the plant
slight in the sand.
Possibly you have
only one of the two
on your coast.
You may be able
to set this right
for a new edition
of your most val-
uable Manual.
Mr Watson has
kindly sent me a
fragment of *Galax
aphylla* and *Saxifraga
ebracteata*. The former
seems referable to
Saxifragaceae

The Report, sent by
Mr Watson, seems ~~not~~
to have not yet arrived
A few ^{brief} supplemental
notes to my ^{herb} list
and, select plants' notes
from you be most
acceptable and publicly
acknowledged.

With the best wishes
for the stability of your
health and the progress
of your glorious re-
searches your

Frederick M. W. M.

Melhamine
Boston

Private

8/12/72.

Long since, dear Sister,
I ought to have written to
you, but for a long
time past I have
been subjected to much
annoyance here, far
more so than even
our friend Hooker. Thus
my time was largely
wasted in merely
defending my position,
and almost all other
time has come
to a stand still.

for his subsistence, has
no family and moved
in the calmness of private
life ever since his youth.
Then I think also, that
he has help, such as no
one else ever can enjoy,
by the large means of
the well organized New
establishment. So it is
with Baron Liebig for
chemistry in Munich
and other great men
had other enviable
advantages. I for my
own part have purchased
alone for Bentham's use
58 large boxes with spe-
cially arranged plans
for ~~Bentham~~ ^{his} & Austral
volumes, each box contain-
ing at an average over
20 large folios. The time
of collecting and examining
such vast material has of
course ^{been} far more extensive

Melbourne
last Garrison
22/4/78

Many years ago, dear
Dr. Gray, our late friend
Dr. Stead wrote to me,
that it was always a
festival-day to him when
a letter arrived from you;
and really so it is with
me, though my tardiness
of reply may not accord
with the sentiments of
my expression. So your
last generous letter re-
mained also unan-
swered for some time.
I wish you could have
honoured Australia ^{from California} with
a visit, though you will
find it perhaps as dif-
ficult to liberate yourself
for a lengthened time from

official obligations, as I
find it. Thus I do not
think it likely that
I ever shall be able
to set my foot on Ame-
rican soil, though even
honored by an invitation
from so great a man
as yourself.

It will be glorious, if
the greater ease of the
autumn of your labor-
ious life will allow
you to pursue your in-
tended Universal work
on plants of the United
States, though you may
find it impossible to
concentrate in your researches
also the vegetation
of Canada and Mexico,
on both of which a spe-
cial work is sadly wan-
ting, unless Dr. Linné's
and Linné's

explorations, and regular
^{very supply} ~~are~~ ^{if they are}
brought for Canada brought
to a final issue.

I agree with you, that Eu-
gyptus, Persia and Ca-
saria plantations
would become important
to your Southern States.
Even now it is proved
in my laboratory that the
tarvit of Eucalyptus can
be separated into not
less than ten well, mar-
ked oils, each available
for special technological
purposes and obtainable
in unmeasurable quantities.
I have sent samples of
all these and other pro-
ducts of Eucalyptus to
the London Exhibition.

You speak of the enor-
mous work of your illust-
rious friend Bentham. Yes it
is marvellous! But he
is blessed with fortune,
needs therefore not work

After the long "struggle
for existence" ⁱⁿ which
~~it seems like~~ it seems like in Hooker's
case a glorious victory
is for me to be achieved.
I trust with renewed
courage of life to resume
my intrudances with
friends abroad, which
by the various restrictions
in my department and
the cruel and unrelenting
persecution to which I
have been subjected for some
of the last years had come
almost to a standstill.
If the wool trade brings
our ports in direct contact
then I shall have a splendid
opportunity to send
you plants & many
other museum objects.

With the profoundest
regard yours J. D. Donnell

than the time needed
for comparing them with
the Ken collections (to
which I also largely con-
tributed) and for writing
the diagnoses. May have
ever providence long allow
that venerable man to
draw his great intel-
lectual power for the
promotion of knowledge.
So A. B. Menzies and
the older Hooker are among
the foremost, who after
Linné have stamped their
names on every square mile
of the globe through neg-
tation! May you also long
yet retain your mental
strength to continue as your
as glorious literary ^{the} ~~the~~ ^{the} ~~the~~
So you are engaged on ^{the} ~~the~~ ^{the} ~~the~~
petalae you may allow
me a remark, which bears
an classification of these
& other plants

I had occasion for the
60th number of the frag-
menta (a work after
a whole year's hindrance
now slowly resuscitated)
to examine some Styli-
dium. This led me to reexa-
mine Donatia, collected
by myself in the high
slope of Tasmannia;
I found it undoubtedly
^{as indicated by Dr. Hooker}
Stylidium. It is almost
a Phyllachne (to which
Ferdinand Forster) with
its column discolored
into its constituent parts
and ^{with} a gamopetalous co-
rolla deprived of its tube.
Like in Galium, or in
Donatia and many other
genera, the so called petals
might be regarded as seg-
ments of a monopetalous
corolla on account of the very
broad base, with which

they are adnate. It seems
to me, that this character
has not obtained the con-
sideration which it deserves.
Perhaps Dr. Hooker may
have taken prominent
notice of it in the new
volume of flora, when
working on Rubiacae.
I restore for Stylidium
now also the older name
Candollea, of which
you might perhaps take
public notice in the
papers of the Academy,
as more than a dozen
years ago already I showed
plants of Vit. vol. 1 of the
instability of the style
marian genus named
after the great Italian
dollar for whom the and
for whom the heirs of his
name the Stylidians
genus would construct
a magnificent and
extensive generic monu-
ment.

I should be
 glad to learn, whether
 you are perhaps en-
 gaged on any studies
 of plants from any of
 the islands. I fancy you
 are not, as you have in
 California a nearer &
 a more fruitful field.
 The Sea Islands are much
 with us in communication
 now, and thus often questions
 arise before me officially
 concerning their plants.
 Thus I ought to be noted
 well up on them.
 Did I send you the 7th
 seal of the fragments? I
 will forward my essay
 (a very short one) by next
 post, as it is only a copy
 partly printed.
 Always with deep
 regards your
 Frd. von Mueller.

Melbourne
 7/1/49

Allow me to ask you,
 dear Dr. Gray, whether
 of poor Horace Mann's
 collections of Hawaiian
 plants still any are
 available through your
 chase or other wise. The
 reason for this in-
 unction question is
 simply, that of late I
 have become particularly
 interested in the poly-
 nesian flora. I always
 liked to be informed
 on the subject, as the
 plants of the Pacific
 islands bear manifold
 relations to those of
 tropical Australia;

Any spare time I have I now devote to the study of the Hawaiian flora.

but I had occasion to
write a chapter on the
plants of the New
Hebrides for a volume
of a young friend, who
was there for his health
last year, and who on
my suggestion picked
up a number of plants
there. This led me to
put up into some order
all the plants from
the various groups which
I possess, but I have
only come from
Hawaii, given me by
Dr. Killebrand (a personal
friend of mine early in
life) about a dozen years
ago. Poor Prof. Mann
promised me a number
of plants from there, but
death overtook the young

and excellent and pro-
mising man early. I do
not wish to tax you
with trouble or able
you for gifts. All I
want from your kind-
ness to learn, whether
I can purchase any
plants ready anywhere.
That would save also
my time of effecting a
return-seeding.
Of course I possess your
great work on the
Exposit. Poor Seemann's
volume is also a great
help for studies of the
Polynesian Vegetation.
Let me also kindly be
informed, what how I
can get any stray books
or any parts of the
publications of your
Spadary bearing on Pa-
lynesian plants.

Wilmington
New Year's day 1874.

The prints of the essays
on the plants of the
New Hebrides, dear Prof.
Gray, came by a few
hours too late into my
hands for being forwarded
by last month's mail.
So I send them now a
copy of them. I fear
that I was unable to
consult all your im-
portant memoirs on
the S. Sea Islands plants
as I ^{cannot} am ~~unable~~ within
my means to obtain
all periodicals and
works on ^{your} plants, and
thus many of your essays
may escape my notice.

Would you do me the
great kindness of
glancing over the essay,
and should you ^{find} ~~find~~
that I missed ^{to consult} any
of your contributions
to the volumes of the
Academy, or any other
of your valuable publi-
cations bearing on S. Sea
Island plants, - would
you then afford me your
aid in directing my atten-
tion to the ^{most} wanting parts
of the literature of the
S. Sea Islands. Perhaps
even you would extend
your generous goodness
so far as to send the
positions of your writing,

which I ought to
have referred to, as
I intended to follow up
this essay soon
by another on the
plants of Samoa.

Always your re-
spected & with best
new years salutation
Judson Munroe

Pray convey to Agas-
iji's son my expres-
sion of condolence at
the lamented death of
his celebrated parent.
This is a great loss
to natural science.

Melbourne
20/4/74

As always or now, dear
De Gray, your letters give
me great delight, as they
are so full of genial gene-
rosity.

How most sighted your
Congress would act, after
incurring the expense of
a great naval expedition,
to withhold the means
of bringing to publicity
all its important results;
among which yours are
not the least, no among those
of most lasting importance.
It is a glorious task also
for you to grasp California
& the other western states for
your works & volumes. So
we shall at last enjoy the
use of a complete flora of
the United States, and per-
haps you will finish off
with what comes to you

phytographically as
a just share Mexico &
Lawson meanwhile
seems to deal effectually
with Canada, as for
bank has done largely with
the Antilles.

As you suggest I will write
to Dr. Killibrand in Heidelberg
concerning Hawaiian plants.
I knew him early in life,
but have lost sight of him
for years. I possess in
my ^{private} library your volume on
Commersonia Willd. plants
with the folio Atlas, and
have largely quoted both
in allusion to the New
Hibernia plants.

If vol. VII of the Fragmenta
is not yet gone to press it
will be sent, vol. VIII will
appear in a few months.
Pray convey to Agassiz our
very condolence as the loss

of his illustrious father,
from whom I enjoyed
much encouragement.
Young Agassiz will per-
haps let me know, what
he most requires from me.
To contribute material
from every branch of zoology
is in this expensive country
too costly for me; but if
any special set of objects
are just wanted for really
for the coming work, I
would willingly send what
I can to any London address
of his museum so far
free.

With deep regards
Ferd. von Mueller

I have lost entirely sight
of the excellent and inge-
nious Mr Osborn.

Private Melbourne 7/8/75.

I have to acknowledge, dear Dr Gray, your kindness of sending me the new volume of the list of plants of Wilkes's Expedition, as well as several of your valuable publications. To one of the latter from the American journal of Science & Arts, April 1875, I shall at some length refer in this letter. I was also glad to learn from Mr Sargent, that the India, which was a private gift of mine, has reached Cambridge (Boston) safely. I was the first to introduce these huge firms to Europe, though it might have been done 300 years ago from South Africa and may 100 years ago from New South Wales. It is also pleasing to me, that I have mainly initiated the large export of fruit trees to Europe and solely to N. America now also; and so it is with the already extensive export of tall grasses from Queensland. I mention all this to show you, that I am actively still engaged in horticultural interchange; thus therefore all Mr Sargent's sendings can be directed to me as before. I am delighted at the progress of your N. American Flora, which will to a large extent elucidate also that of Canada & Mexico. At the end of this century, or I anticipate, nearly all the plants of the globe will be known & a complete system, except of minute organisms, be constructed. In Australia now all ready novelties turn up very sparingly, though we will occasionally trace additional Indian plants into this continent. I trust you will forgive me, my venerable friend, when I defend my poor fragments against Bentham's assertion, that they are comparatively useless on account of want of method! Had I titled this unpretending record of new discoveries on our very obscure regions an "Australian Flora" then simply & the contents would not well accord, though the

usefulness could even then not be disputed. Fragments are carried together in this volume, to some subsequently for the building of a whole; and I thought to deserve some praise for having kept these fragmentary notes together in a series of volumes, instead of scattering them through the journals of many years of journal-keeping, then of course far too accessible. My edition of course should according to the idea of our great friend be discouraged I have utterly failed to understand! Just as well the bot. magazine (which without a principle index is difficult to use) and still more so all fragmentary observations in journals ought not to be published, but be laid aside, until after perhaps many years a monographer turns up to use a small portion of some such notes, and according to this harsh & discouraging dictum, no one ought to touch a well-known or new plant, unless he was rich in words - means & at command of much time to plunge into extensive change. No one except at Kew, Paris, Geneva and a few other places then should be allowed to work! - Be it enough - I am convinced Mr B. is himself sorry for his hasty remarks against poor Miguel, who can no longer defend himself and against me. B. in the Flora Australiana (not correctly called A. Australiense) uses my fragments for every page. The fragm. have guarded him against endless errors, into which he ^{would have} fell, and the fragments all have cleared up subsequently numerous incorrect treatments of the plants in the volume of the flora published before. I have not made a single remark that could have given me offence, though Mr B. has not shown to me as a younger man, working with far less

facility always the same consideration. Gamphyllum, though and by me as a distinct genus, is included among in B. Eurochium, though it does not belong to Anacardiaceae; many other errors could be pointed out as blundered up in the fragments. The species are vastly overrated by Benth. Thus Diplazium has but 1, Microyle but 1, Gelynnia but 1 &c. This gives 3 instead of 10 spp., even if the genus can be maintained. Thus although I have added 350 spp. in the fragments to B.'s six volumes, yet I had to reduce more than that number of his as untenable. Here a difference of opinion arises as to species. If I take for a type of a real species homo sapiens, I can still, imperfect as our knowledge yet is of the forms of all species of plants, find some standard for specific value. One illustrious friend not believing in species as created, but adopting permanent varieties (a canon in itself) is guided by taste more than by research a hopeful settled invitation of species. Hence his views are very different to mine. Let me regret his, as I would fain hope he will regret those of a younger worker. Perhaps, my revered friend, you may deem all this narrow-minded on my part, but I mean for, among what people I have here lost my life lot. And as a foreigner I am envious, resenting in my native & my buildings, my staff or nearly all being swept away. My far-advances will hold up remarks, such as Mr B.'s about the uselessness of the fragm., just as a remark on my naming of plants, quite in contradiction to facts, was allowed by the excellent & master to slip into the Gardens Chronicle last, to be read you against me. I shall nevertheless

The notes for the fragments were of the comprised all that might have been of the spirit of the magazine & of the spirit of the magazine & of the spirit of the magazine

continue the fragments, so long as
providence leaves me strength &
sight. I can dispose therein any novel-
ties, and also any corrections and
additional notes on localities. I had
a full index made the use of the va-
lumes easy enough, and as you will
see in the 8th (at its end) I have enu-
merated all the species added since Bent
has written. Thus for a supplementary
volume the material ~~was~~ gradually
accumulated. The arrangements in the different
numbers is not altogether without
method, always commencing with higher
order divisions. That I am possessed by of
some little idea of method, where necessary
I have shown in the plants of Victoria.
Now - dear Doctor - could I have worked
out these volumes so rapidly, without any
prior labor? About 70 large cases of plants,
with few exceptions, all spec. examined
were gradually in the dozen years sent
to him. One large case with examined
Cymbaria, an other with Gramineae
& another with frus is ready. I told
our venerable friend myself that I
regretted he had undertaken the Flora
of Austr. it overthrew my literary plans
of life. The work is already very imperfect
& should have been left to myself, who
I could have finished it at last at Rome.
Then by this time the general (a far
more important work) would have been
ready & perhaps also the Flora of India
& Trop. Africa. Though B. is the author,
my labor for the work after 28 years
stay in Austr. and travel in Australia, at a
sacrifice of £10,000 of private means & at
far greater, than those of B. yet I gave him
cheerful a subsidy to each volume out of the
private means of the Department, for

My position was
exactly at the same
footing as Hookers
at Rew. It was not
nor ever can be one
as Dalfour of Edin-
burgh. Hookers is
essentially an admi-
nistrative position,
Dalfour is essenti-
ally an educational
position. In your own
case, though you are
happily not hampered
out of your garden as
I am, you may not
have the responsibility
of Gov. Watson for
the Unit. States, as
Hooker has for Britain
& I for Australia.

W. M. M. M.
Private Christmascday
1875.

I have given, dear Dr
Gray, to the Secretary
of the Victorian Exhibit.
Commission an intro-
duction - letter to you.
He is very influential
& intelligent, and I re-
commend him to your
special attention, should
you come with him
at the Philadelphia
Exhibition in official
contact. The articles
which he takes from
the Melbourne Lat.
Garden, are most mischiev.
Even the laboratory
articles are only a
repetition of what I
sent to the London.

Exhibition, and this
on a small scale
only and inferior samples.
There is nothing new
among them, except
indeed papir from
Dair! of course no
one could make even
papir profitably out
of it at the Cape of
Good Hope. All this
unsuccessful failure arises
from the botanical
garden being with-
drawn from my con-
trol, to become a
sinecure of a near
relation of the former
Minister, an ordinary
gardener. This man
has even the Laboratory
& apparatus, with

a view of excluding
me not merely from
the garden but also
from the ground. I
will not enter on this
painful subject any
length, as you have
not written to me
in a manner so mi-
serable to me as Dr
Thwaites did to a his
former colleague.
It is however impor-
tant, that I should
put you on your
guard, so that you
may not unconsci-
ously work perhaps
into the hands of
my adversaries, by
giving your opinion
on my ruin to our
enjoyer, Mr. Levy

I demand a thoroughly
restoration of the best
gardens to the San Jo-
se and a trans-
fer of the ordinary
gardens for plebeian
cultures to the nu-
merous reserves and
parks around Mil-
bourn, which are
largely endowed spirits.
This is the only principle
on which you can con-
port me; if you cannot
do this, then at least
do not hurt me as
some other former col-
leagues have done by
rejoicing of my being
relieved of drudgery!
For which I had all along
far better gardens than
the new corner. Ever
respectfully your friend
Andrew Munroe

In any conversation
with Mr. Lury you
can of course only
show the absurdity,
supposed Dr. Bowker
was deprived of his
gardens, while his
plants, his staff,
his notes and his
buildings are. How
could he then carry
on the departmental
overide? — I was
only able to keep a
small portion of
the Department going
by spending almost
the whole of my ma-
jor salary for keeping
the wreck of the
department afloat!

Indeed I am ~~overly~~
domestically, finan-
cially and to a great
extent also depart-
mentally & orientifying
ruined. Not even
an office room is
left, ^{now} I have no longer
a collector, no rate
for books, instru-
ments, journals, thanks
to the daily
demand on me by
the Australian pub-
lic daily increase,
with a crop of
information on culture,
resources, traffic
industries & very
wide indeed in
this line,

Jay, my dear
Dr Gray, the resig-
nation of your Director-
ship under friendly
arrangement may be
an advantage, provided
you have no responsi-
bilities of a Gov. ad-
ministration kind.
To me the withdrawal
of the Directorship is
a deathblow, and this
is all the more pain-
ful to me, as I was
purposely starved out
in the last period of
my administration,
while the young Sydney
Newcomer, who
in reality is now Dr
Hooker's colleague
was supported with
enormously increased
means as soon as he
came.

What a grand
completion will be
your Californian
work for the ex-
haustive volumes
on your E. States.
I trust you will
live to include the
Mexican Flora. Is
there any publication
from which I could
gain knowledge of
the tubercular value
of the Mexican Oaks,
Pines, &c

With respectful
remembrance

Yr. son Mueller

Eastw/1876.

Let me thank you
for your noble letter,
dear Prof Gray. Like
yourself I find, that
if ~~once~~ ~~but~~ any letters
~~remain~~ are left un-
answered at once,
they are not likely
ever to be answered
at all; for ^{as} a prom-
ment of the remem-
ber the heap of
unanswered letters
becomes then more
formidable every
day and I give it up
as a bad job in despair.

However the excuses
of the first Napoleon
in these reprints do
not apply to a great
man as yourself.

I have sent you
the ninth volume
of the fragments,
also prints on Pa-
pan plants &
The reprint of the
article in the Victoria
Volume for the
Philadelphia Exhi-
bition might be
useful for your
country & state in
a pamphlet form. It
ought to pay any printer.

Perhaps you deem
these poor efforts
of mine ~~of~~ ^{to} worthy
of a few friendly words
of encouragement in
your journal or Soc-
iety.

Of course I do not
wish any retraction
of the remarks made
at the Brit Assoc.
by a most venerable
and revered man, but
after my publication
is publicly stigmatized
by him as almost
worthless or useless,
I cannot possibly
send it to him any
longer with any
self-respect.

last poor publications,
in the records of the
American Academy.
Any words from
you have such an
authority.

In the School flora
I have combined *Grasenia* with *Cabombay*,
which may interest
you. I do not see, how
the two genera are to
be kept separate.
Of course I do not
think any more about
Benthams remark
and should never think
to give him pain.

Ever your friend Wm. Muhl.

Wm. Muhl.
23/8/76

Let me thank you
for your friendly note,
dear Dr. Gray, and
for the splendid
volume on Californian
plants, for
which anyhow I
would have sent,
but which I value
all the more from
your hands. I shall
closely compare your
diagnoses of the
or *dris*, as I have
recently written the
characters of them.

for my school-
flora, of which the
first part is in
print. I shall be
able to improve now
from your large ex-
perience on the charac-
teristics, which I had
adopted.

I have now the term
fruitlets for carpels,
stalklets for pedicels &
to make the language
as plain as possible
for schools and have
for want of space omitted
many characteristics on
ovules & not absolutely
 requisite for recognition

of an order of genus.
There is very great
difficulty here to
get anything published,
printing being far
more costly here than
in Europe and America.
To Trimen's journal
I have sent last month
some notes on the
affinity of *Plantago*
neat, which bear
some relation to *Logania*-
areal. The seeds of
Logania & *Plantago*
are very similar and
there are other points
of concurrence.
I feel highly gratified
about the friendly
notice, concerning my

You would get due
credit for them.

Perhaps you might be
in the position to ex-
tend your favors so far,
as to procure for me
also any publications
of the Centennial Exhibi-
tion bearing on Utilitarian
plans. If not accessible
from Government, I would
willingly remit for such
sending.

Now, my venerable friend,
if there is anything
else, I can do for you,
may command unhesi-
tatingly my services. With
poor steel I also say, it
is always a festive day when
a letter arrives from Dear Mary
Respectfully & fondly
your son

14/4/78.

After a very long pause,
dear Professor Gray, I
again write to you. I
was almost on the point
of meeting you & Hooker
in California, as a friend
of my youth, Dr. Wehr,
invited me since your
and just when you tra-
velled with Hooker, I
was out of health &
~~on the~~ intended to go across
the Pacific to California;
but finally I was induced
to spend the 3 months here
in West Australia, where
I travelled observation-
lines of 1500 miles in
9 weeks, 900 miles on
horseback.

If you care for them,
I can send you spare-
specimens from Midway,
having collected overland
right north to Shark-
Bay.

By this mail I send
you & also the Academy
the 10th vol. of the
fragments. I say send
me the number of the
journal, should you con-
sider to refer to the
work.

Now I have a special
favor to ask. Could you
spare any day of your
precious time to cast
your eyes over my "se-
lect plants" of which

you will have a copy,
and in the process to
which volume I allu-
ded to yourself. It is
my intention to issue
a new edition at the
end of this year, ^{and} which
I like to make ^{it} as com-
plete as circumstances
will permit, and for
which I have collected
many supplemental notes,
so that the volume
(even as far as my pre-
sent supplements extend)
will reach 400 pages.
From your semidolular
experience an imma-
nity of additional notes
could easily be obtained,
particularly since you
saw the ~~man~~ ^{man} to the
personally.

1/8/78.

It is my pleasing,
duty, dear Dr Gray,
to acknowledge the
sending of your most
valuable and impor-
tant volume on
N. American plants
in continuation of
the great work of
Dr Torrey & your-
self. What a host
of novelty the rich,
particularly western
flora has afforded
you! You may well
be envied for your
grand success!

In accordance with
your wishes, I have
forwarded a copy
(bound) of vol. X of
the fragments for
yourself. It will
be long before a
new volume can
appear, because only
rarely new new
plants turn up
in any part of
Australia. If any
of my publications
are acceptable for
the Academy, of

which you are the
dignified president,
I will gladly send
them. Any reviews
of my writings from
your friendly pen
would remain un-
known to me, unless
you sent me the
print yourself,
as in former years.
I hope you got my
English (enlarged)
edition of *Wittstein's*
Chemistry of plants,
which ought to prove
valuable to you, in-
deed to any medical
man. Respectfully
yours, J. R. Mendenhall

President, like
to have also a copy
of the Atlas, I
will be happy to
send it.

Various publications
have been forwarded
to you from time to
time. I hope they rea-
ched you "franco";
perhaps they never
arrived at all.

With the best wishes
for your health &
happiness and for
the progress of your
glorious labours I
remain your respectful
servant
Fred. von Mueller

6/9/79

By this month's
post, dear Dr Gray,
I send you the
two first volumes
of the Eucalyptus-
Atlas, and I hope
to send the 3rd &
4th by the October
mail.

In any review, kindly
remember that I
have been cruelly ex-
cluded out of my
bot garden for more
than six years,

where I had about
60 species of Eu-
calyptus under
culture, many of
them since lost.
The destruction of
my Department^{at}
in most of its bran-
ches has delayed
also the appearance
of this Slab, and
you will also kindly
consider, that many
of the experimental
tests of the woods,
whether chemical
or dynamic or

anatomic could
not be carried out,
since in 1873 even
my laboratory was
pulled down by
more malice, and
I even was deprived
of my apparatus.
If you review the
Berado, pray, send
me the pages of the
periodical, as other-
wise I shall never
even read the review
myself.
If the Library of the
Academy, of which
you are the worthy

Private

Müller 21/2/80.

The February-mail from North-
America, dear Dr Gray, brought
me your kind letter sending of
the biography of Prof Joseph Henry,
which I read with all the more
interest, as (through the Smithso-
nian Institute) I became my-
self into communication with
that illustrious man for many
years. It is a beautiful piece of
writing again, this of yours; - though
- may I venture to say so -
Ritchie, Carnot, Faraday and
Wheatstone might claim a place
in those the series of those, who
brought electric telegraphy about.
Thinking of the Smithsonian
Institute, may I ask, whether
any desirable volumes are mis-
sing in the series of my own
poor publications, kept there.
At antipodal distance and
under great adversities of later
years, I may not have mana-
ged, to get volume after volume
regularly across to you, and
some may ^{have} been lost on the way.
But now to another subject.

I did double as much phyto-graphy in the
last season with all the parasites there, than in any
of the other seasons.

Some years ago, when you allu-
ded to the fallacious remarks
of former Women, propounded
in conversation with you, regard-
ing my miserably changed
position, you made ~~the~~ in your
usual generosity the remark
"rest assured, if I cannot help
you, I shall at all events not
harm you". When now I read
your kind review of my work
on the Eucalypto, you allude ^{alluding}
to the difficulties, which beset
my path of research even in
a work of this kind, but you
- my honored friend - neutralize
completely any good effect, which
a word from you might have
done me by the phrase, "let him
consider, how much valuable time
he saves for true botanical work
by his riddance from the multi-
farious cares, which garden-super-
intendence involves". I hope earnestly
that this review ^{by} of you will not
fall into the hands of my adver-
saries here, as it would emasculate
the strenuous efforts of myself
and a few scientific friends, to
reconstitute at least to a small
extent my formerly illustrious
& a highly useful department.

Now for a general principle,
such as you lay down in the
above sentence, may apply
to the Harvard administration
of any University, I should not
venture to pronounce. Even in
such, local circumstances must
greatly affect such a general pro-
position, and I should be loath
to give on it a public opinion
^{regarding} on any institution, which I
had never visited & on which I
could not judge fairly at a
distance, but I might inflict
- however unwillingly & however
unprovoked, an injury. To the
position of mine or any for-
botanist, the proposition or
principle which you lay down,
my generous Sir, - is utterly
inapplicable, as I practically
find out in the daily execution
of my work! - Thought Hooker
once, in disgust of Syrtone's
conduct, actually wanted to
relinquish the New Harvard, I
feel sure he is glad to have
thought better of it, and I
certainly, when he told me of
his intention, advised Sir ^{Hooker}
to remain generalissimo.

But, however that may be, Mal-
bourne should not be judged
even by Kew, as Sir Joseph
would at all events probably
have no actual hostile intru-
sion on his position, had he
merely kept the Museum,
though I cannot see, how his
Museum work can be severed
from the horticultural work
& vice versa, without causing
impediments, intrusion, mis-
understanding or in all directions.
Here my being driven out
of house & home, away from
my thousand of kinds of living
plants, from the staff trained
by me, from my laboratory &
seed magazine and indeed all
I had, except the small garden
bot Library and the only herbarium
room, here this senseless and
outrageous measure, dictated by envy
& reputation, has had a most
disastrous effect! It took away
from me even the means of keeping
a ~~to~~ collector in the field for
the continuation of the fragments,
it stopped my introduction
of plants for forests & fields
& pastures, it led to the

the same may be said of the export of perubres, Surubres seeds
Dated by me.

5
pulling down of my Labo-
tory & the withdrawal of
my apparatus, it tied my
hands so that I could not
do a single thing for the Phi-
ladelphia Exhibition nor any
other Exhibition since, though
as far back as 1855 I brought
out the Eucalyptus-oil for
the first French Exhibition, an
article the export of which
up to this time (and still
increasing, represents about
£15000 in the Export-trade of
Melbourne already! Not even
as much as an office-room was
left me, my library had to
be stowed away ^{for years} and I have
only lately ~~thought~~ got it set
up again, having bought a small
cottage through a Building Society
Doubtless you (& perhaps Hooker
& others) will say, that I en-
joyed a splendid salary, & there
ought to be no difficulty to
provide for all my work. ~~At~~
out of that. Now it is nominally,
not actually so. - Melbourne
is an excessively costly place to
live in; my income moreover

is consumed to keep the
wreck of my once illustrious
Department afloat, though I
never touch a card or billiard
ball, give no parties, live the
simple life (forlorn life
too!), never visit races, but
do not like to be left quite behind
in the race with my compeers.
Imagine Hooker out of Kurr!!
Though I have a high feeling for
professional honor, what
say is not sentimental, but stern
reality, and if you, Professor Gray,
only for one hour visited my
place here, you would deeply
sympathize with me, and
would do for me, what Paget,
Holland, Carpenter, Hurley, Tyn-
dall, Darwin & Beatham did for
Hooker! - Let me give an instance
only ~~this~~ two days ago I placed
here as a member of the local
branch of the British Medical
Association Dr King's new ^{Calcutta} Febrile
sugar before the members as a
cheap, but highly efficient thera-
peutic remedy for ⁱⁿ hospitals practice
& for indigents, - not crystalline
nor quite purified, but a mixture
a Quinine, Cinchonin, Cinchonidine

& Quinidine & perhaps also the
amorphous alkaloid, the Quinine
however prevailing. Why do I
mention this? - If I had not been
ejected without any fault of mine
out of my institution, I would have
had certainly Quinine from
my own trees in the Melbaum
Exhibition this year, whereas
I shall have these matters
of any kind, because my hands
are kept tied, and all working
material, to give vitality to my
research, is taken from me.
Ignorance betrayed my lin-
chunas and even so much else,
that we could grow in one or
the other region of our colony
to advantage, just as you could
grow in the South of California
in warm sheltered forest glens
the Fern-Bark trees. I feel sure
you will not argue with me
from so far a distance on what
my position here ought to be,
but perhaps you may say, let
things grow the Cinchonae! But,
my dear Sir, I am to be the
leader here of vegetable new
industries, and I must abandon
and that daily & hourly, to
help the colonists practically,
and if I cannot do that and

make annually a good show,
(look only to Hooker's New
Reports!) then I am bound to
go finally to ruin.* What do the
colourist care about my Flora
as a whole? For that they
would never for any period
maintain my position, and
as I sunk all I had in my
recollections (the printing of
Wither's cost me exempli gratia
£220 -- out of my private purse
and only about one tenth of the
copies were sold), I should be
sent adrift as for. Not a cent
without a pension, should be forced
to give up the Library & Herbarium
also & spend the last days of
my life in obscurity & poverty,
getting only once for ever under
the Civil Service Law (a com-
pensation for loss of office. Count
de Cabelnan (with whom Dr
Weddell was out) wanted me
to go always according to his
unfortunate talk where he
relieved of drudgery, but when
one morning he saw it ^{suddenly} announced
that I had to leave my creation
& even the House, which I built

in 17 years, he wrote at once
a doleful lament, though he
helped unwittingly to under-
mine my position. However,
he also numbers now with
the dead, & I was one of the
pallbearers of his Coffin this
month.

You must pardon, dear Dr
Gray, when I inflict this
long letter of sadness on you.
I fear, it is my last!
I have a presentiment that I
do not live till the end of
the year! I am since a long
time under constant incom-
mune, and if I ever sleep a
little, I am in dreams again
in my little paradise, in my
house, among my plants, among
my gardeners, who only wanted
one hour daily attention
of mine as a rule, and did
the drudgery for me, as they
are now doing for the Sydney
mironyman, who is now the
Directorial College of Hooker,
Ryde, Eschler & Co. If I spent
a few additional hours daily
in the garden, it refreshed my

mind, invigorated by a thorough
oxygenation of my blood my
physical strength, originated
daily new observations, not
only phyto-graphical (for
which the moneygrubbing
colonial communities do
not care), but industrial tests
also so. I am forced to leave
Melbourne at the time of
the Exhibition, - for as a dis-
carded Director and as a head
of a Department without a
Department, I cannot present
myself to the illustrious
Strangers, while an unscrup-
ulous intruder praises himself
up daily with my treasures,
on which the sweat of my brow
adheres since the last quarter
of a century. I have said as
much to the excellent repre-
sentative of your State in a letter
to him in Sydney, Dr. Cox. Was
I fear I may not live so long,
and then you may have still
after all that even mislead you.

a few kind words for me in
any little necrolog, you may
possibly deem me worthy of.
My God! what could I have
done to advance science in
Australia and give it a prac-
tical and useful bearing in the
new colonies, had I been left
only with slender means in
my creation, or had only half
the sums, mostly squandered
away, since I left (and largely
increased) been at my com-
mand.

And now, good bye, dear Dr.
Gray, and may providence
watch over you also in future,
as it protected you on the
brink of an abyss lately,
and let no clouds disturb
your bright career, such as
obscured mine.

Fred. von Mueller

for daily abomination
around me? How
could Hooker be Jan
Botanist of England
out of Kew? Your
comparison to Bent-
ham does not apply.
He was the heir of
Jeremias Bentham's
fortune, while I am
utterly without property
except some books &
some instruments. He
never held any official
position, hence he could
not feel the pang of
grief to be driven from
it. He has no responsi-
bilities of any kind,
~~but~~ I am daily overwhelmed
with them in and out
of Parliament!

Müller 13/5/80.

Your kind letter of the
2 April reached me
this day, venerable &
generous friend, and
afforded me the happi-
ness to learn, that in
unimpaired health you
proceed with your
glorious labours.
Your thorough investi-
gation of the Admiral
will give you the best
means to judge, what
demarcations ought
to be applied to that
great genus. I still
maintain against
Bentham & J. Hooker,

that it ought to
be extended to Olearia,
as W Brown also
thought. *

You still, dear Dr
Gray, have not a
clear view of my
position here, which
is not so very ^{apparent}
prioring, as your ob-
ligations were strictly
defined to Professorial
duties. But my po-
sition is as multi-
fariously responsible
as Hooker's at Kew,
^{indeed in this time more so,}
and if I was merely
to work on dry plants,
my Department would
soon be struck from the

Budget, as not one
among a thousand
Australian Colonists
cares about Phytography,
but hundreds out
of the thousands de-
mand ~~for~~ guidance
& experiments in culture,
^{in this new colony.}
So an un cautious word
in public journals can
have the sequence of
annihilating ^{the rest of} my De-
partment and there-
with depriving me
also of the Library &
Museum! I am sure,
you cannot wish that!
Now, how can I do justice
as for Botany, if
I have not my living
plants (grasses, timber
trees, & deciduous &c &c)

* Gray gave me your opinion

though the helplessness
of my position
and the degradation
of my Department
has never been felt so
keenly ^{by me} than now, when
the great Exhibition is
approaching! The Garden
of Melbourne is practically
shut to me, even if it
had not been largely tur-
ned in to Lawns & Ribbon-
plots!

It is very thoughtful of
you to send me your ser-
mon-lectures. They will
be glorious. Probably I get
them to-morrow with
the parcels. Will send
you in reciprocity the
print of the lecture ^{on} what
the clergy had done for the
natural sciences. Ever yours
Frederick Mueller

He has his fixed
income from some
property. I am utterly
dependent on my
salary, which is not
fixed, which must
be revised annually,
and may at the caprice
or illwill of any Mi-
nister of the Depart-
ment be left out of
any annual budget,
if I cannot show
practical work, out
of which rural and
technical colonists can
make a living. Besides
it is not a high-
minded man or even
one of education;

who followed me
in my Departmental
position, took my
house from me,
my laboratory; appa-
ratus, irrespective
of plants, votes and
staff; it is a person,
who glorifies himself
daily on my expense,
with my treasures
at the utter oppres-
sion and ruin of
my position!

No, Dr Gray, when
Sydney wanted to
drive Hooker out of
Ken, I wrote to our
friend, "Keep Generalis-
simus!" The wisdom

of that the New Director
has recognized, though
he in disobey was on
the point to stick only
to the Museum.

Moreover my phthisic
taint requires me
to oxygenate my blood
well, by exercise in
the open air, which I
got in the Garden daily,
while now, deprived
almost of all help,
I have to keep ^{very} long
hours in the study, so
that tuberculosis is
sure to get developed
as it was ^{finally} with Har-
vey. However I feel
a little better, than
when I last wrote,

nature would give
us in ages back again
the Dodo, the Moas,
the extinct plants of
St Helena and other
bygone organisms,
even of the simpler
types.

It is good for man-
kind, for our earthly
happiness, that we
cannot penetrate to
the greatness of god-
like power by any hu-
man investigations. But
a religion, built on ob-
servations on the beauty
& wisdom displayed
in nature, preached in
churches of her own or in
the free globe world, would

Whit Sunday 19/5/80.
Since writing my
first letter for this
mail to you, revered
friend, I have recei-
ved the volume of the
two lectures, which you
so considerately presen-
ted to me. These dis-
cusses are worthy of an
Aeschylus; the thoughts
& the language are
equally powerful in
these discourses, and
the views of the science
of the day are blended
with deep religious
persuasion.

Much will we and the
next generations yet
have to learn, before
the history of the ^{body}
creation will be revealed to us, though the
origin and nature
of the godlike vital
force will be concealed
for ever to mortal eyes!
To discuss the great
questions of these essays
of yours with so great
a man as yourself
is not within the scope
of a letter, even if a
younger and ^{you} less author-
itative observer dared to
express himself frankly
on the subject. Was this

I might venture to say,
that the so called proto-
plasm is to my view
not an uniform sub-
stance through the great
empires of living beings,
and that the present
creation does not en-
tirely comprise forms
of higher perfection, but
many of less development
than those of the past,
both animal and vege-
table. Nor do I think
it possible, that the
present plants & ani-
mals in their marvel-
lous diversity and co-
piousness could have
sprung from ^{or few} one type,
and I feel satisfied,
that no efforts of
mechanical

changed in the least
since science began
to record its observations!
I fancy that it is
god's ^{own} breath as well
in us human beings
as in the simplest of
organisms, which gives
us vitality. Under the ordi-
nance of such a ruler
we may rest secure,
that we are watched &
may anticipate a happy
future, of which Religion
gives us an earthly
forethought. And why
should we poor mortals
narrow try to narrow
God's creative power on this
^{small} atom of the world down
to a primordial germ,
without support and
evidence.

greatly elevate the
spirit of those, who
cannot cling to criti-
cal revelations.

Homo sapiens remains
after the study of
thousands of years
an unalterable species;
and I feel convinced,
that in the same
manner other ^{true} species
move within defined
absolute limits, but
our observations are
as yet far too scanty
to define their ^{real} ^{circumscribe} specific
boundaries; that will
be the work of coming
centuries. Herbert's early
observations on the ^{high}
fertility of hybrids

when extended will
give us many a
new insight also
into the value of
specified forms, now
often kept very apart.
I rejoice to understand
from your dis-
course, that you do
not deem the mere
idea of selection suf-
ficient to account for
the development of higher
organized from lower
creatures. How could
any one from a medical
point alone! To my
mind we must grasp
the question of the cre-
ation of organized spe-

cies from considerations
of the whole creation
of the universe. How
could the eye of the
mere housefly with
its thousands of lenses
& optic adjuncts gradu-
ally originate by evolution?
And even if so, which I
do not believe, is not
our world of organisms,
wonderfully varied as it
is, a mere speck in the
universe, without world
without end? I must
not the grandest pla-
nets ~~originate~~ with their own
originate from the same
godly power, which called
forth the wondrous
optic apparatus of
insects, neither the one
nor the other having

Can we not in religious
belief concede to the
supreme power the
might of calling forth
distinctly the organic
series? The primor-
dial germ, if such
~~exists~~, must be the
most ^{earthly} marvellous
of wonders anyhow,
to be capable to develop
in hundreds of thou-
sands of species, easily
recognized & classified
even by our human understanding.

It must be a great
consolation to you, dear
& honored friend, that
after the toils of en-
quiries through a long
life you can still

like Brewster and
so many others of
the wise, cling to
the comforts and
assurances of religion!

Ever yours

Frederic Muller

to any one, when
chances offered. The
life is so consuming
and prosaic, that any
little poetic exhalation
or other rational
pleasure should not be
missed. When ^{yesterday} in the
course of an "ex-tem-
pore" speech on several
^{historical} subjects I referred to
Longfellow, Orion &
our Councils from the
Presidential Chair, this
passage of my re-
marks was received
by all the active sin-
ging members of the
Liedertafel with par-
ticular pleasure ^{applause}.
Respectfully yours
Gerrit Mueller

27/3/82.

The telegram has
just reached us, dear
Dr. Gray, that your
illustrious compa-
triot Longfellow is
dead. At his vene-
rable age he being
called away into eter-
nity, does not take
anyone by surprise;
still the whole world
of educated and high-
minded people will
be sorrowful at the
loss of so great a
man.

When presiding
last night at a
Fête of the "Freder-
tapol" I took occa-
sion to mention,
that I had begged
of you, to send the
program of the Con-
cert, in which Mr
Nedel's musical
version of Longfellow's
Brion was first played,
to your compatriots
with an intimation,
that the Music should
follow as soon as it
was published or ^{manuscript} ~~a form~~
copies for all the needed

instruments could
be written out. The
latter to receive, and
(as I ^{thought} hoped) to hear
performed in a great
American City, the
Poet did not live.
But we here hope
that he derived ^{yet} ~~some~~ ^{tridely} ~~some~~
little pleasure of hear-
ing, that at the
antipodes ~~his~~ one of
his great poems had
been first expressed
in musical voices.
I had nothing to
seek in offering the
program, but throughout
life I have sought to
give some little joy

29/10/82

Let me express my best
thanks, dear Mr Watson,
for your goodness of sending
me your important addi-
tions to the N. Amer. Flora,
as recently published by the
American Academy of Arts
and Sciences. It is pleasing
to see gradually thus the
whole vegetation of your
grand country descriptively
elucidated.

The enclosed print of a ^{number}
lecture of mine may interest
you, as I alluded also to
the N. American plants.

In a few weeks I hope
to send to your Univer-
sity and also to the Academy
the first volume, contain-
ing all the ^{Australian} Vascular
of my Census of plant-
species. Could not some-
thing similarly be done
for the Flora of the Uni-
ted States? A proof-sheet herewith

Respectfully yours
Frederick Mueller.

Kind
Tell me, what works of
mine the University
and the Academy possess,
so that I may complete
the series for the respective
libraries. There, as far as that
can yet be done

As you are so much in
communication with
Mexico, could you kindly
help me in finding out,
which oak furnish
the best timber and tan,
which Pines the best
building wood and resin,
and any other informa-
tion regarding vegetable
technology? I want very
much these data for a
new edition of my volume
on "Orbit plants for in-
dustrial culture". Could
not also a N. Amer. edi-
tion be brought out? It
ought to sell extensively,
and I would revise it
for N. Amer., and give the
right of publication gra-
tuitously.

Müller

In sorting and
planting into the
great divisions, it
is now quite a com-
fort to me, not to
be troubled with the
Monochlamydeae.
Two European Uni-
versity-Professors
sent me lately a
Polycarpaea each as
a Gomphrena. This is
very pardonable, but
shows, that a system
cannot be in all
respects natural, which
keeps Caryophyllae
near the commence-
ment of Dicotyledonae
and Smaragd. near their
end.

25/8/83

The, *Cenanoë*, dear
J. Gray, is to serve
multifarious pur-
poses; here as an
index to the Australian
portion of my Mu-
seum, as a frame-
work of a new flora
&c. &c. Allow me also
to remark, what I
have done already in
a former letter, that
since nearly 20 years
I have no longer
kept the Monochla-
mydeae (or as now
unnecessarily called
Succupletae) together,

that I implored
Bentham & Hooker,
when they comman-
ced the "genera" to
do away with
that unnatural
portion of the *Indica*
system, changed by
Lb. from *Aspetalae*
to *Monopetalae*,
to which pleading
the answer was,
that Lb.'s system
must be adhered
to in its entirety,
because it was every
where in use! Accord-
ing to that, also

Linné's system
should have never
been abandoned.
The *Monopetalae*
may still drag on
til the end of the
century, but will
not likely be main-
tained far into the
next secular epoch!
I need not mention
to or leading a na-
turalist as yourself,
to what extremity
Bot. & H. are driven,
by being obliged
to place actually
the *Loranthaceae*
into the *Monopetalae*

Pardon me, when I re-
mark, that from the
very commencement
of my using the nat.
system, more than 40
years ago, that the wor-
ding Polypetalae and
Monopetalae are Mic-
romeris, as in the great
majority of cases their
flowers are oligopetalous.
The terms Chori-petalae
and Sympetalae are ^{published} ~~used~~
with me in 1866, long
before Eichler, who how-
ever was not aware of
this fact.
Jackson in his "guide"
writes also Liime.
I write Liime.
I have nearly all L.'s words
but not the three "Kera"
so that I do not know
how L. spelled his name
in his native tongue

The correct is to show surely that the end is

I see however in
my library, that
Schreber's edition ^{in Latin}
of the *Materia medica*
(1773) says Caroli
a Linne *mat. med.*
as he was a disciple
of L., this ought to be an
authority. In Germany
I never saw L.'s name
otherwise written; in
deed not only *Brookhaus*
writes it so in the
Encyclopaedie, but also
Chambers in the *English*
Encyclopaedia. It seemed
to me best to adhere to
one mode of spelling
the names of Botanists
thus I kept to *L'Escluse*.
Book is

Linnaeus
Botanica

It is with deep sorrow, that I hear of Mr Bentham's failing health. After some repose he is likely to become invigorated again, unless some form of organic disease set in. We shall miss that great man all very much, after he has passed away; my wish to meet him once in life will not likely be realized. The use of the seeds of Shrub in Gammus and Trachoma will interest you much, as it depends on a bacterial

25 1 18-5

fermentive prin-
ciple, and super-
seded so much more
rationally ^{and controllably} the use
of other inflammatory
secretions, even the ^{such as}
antiquated blennor-
rhoeal. Some of the
Australian Alarias
are almost herbaceous,
for instance *A. ciliata*.
at best the woody
stem could as little
be generic as in *Sesuvium*
& *Mimulus* ^{at their}
^{Australian and Extra-Australian}
Composite genera, so
far as I venture to
judge. Let me hope
that you are now quite
well again and, with
ease and happiness
continue your glorious
researches. Respectfully your
subservient

85

I admit, that a difficulty exists about the term Calyptrae, especially so long as we have not yet settled the value of Lodion-
lae or in Gracilae, unless we adopt implicitly the views of Nathel.
But to call the floral lobes of
orchids, Smarag-
lidiae or apical
and petals, is
utterly inconsonant
to calyx lobes and
petals in Rosaceae,
Myrtaceae &

not all orders are
represented in
Australia; but I
do think, that
I have for the first
time given to Ela-
tineae, Plumbeagi-
neae, Flautagineae
and some others
their exact systema-
tic position. The
Curcembryonatae
are all inseparable

Habit does not deter
Cucurbitaceae to be
brought near Com-
positae, both gamma-
putalous. The grand
climber, Senecio
scandens, covers
many a wall or
bower here. Acantho-
cygos horrida is
an almost leafless
but ^{without glands} springy herb. The
stems of some of the
Cathartes are ^{smaller} smaller
than larger than those
of many Compositae
(Cynara scolymus &c)
^{in contact given} ~~my~~ ^{my} ~~correspondent~~
^{as to} ~~of~~ Orders cannot
be applied to all
other countries, as

list 1882/ used
the terms di- and
monosyllabic.
Hence I put them
that way in the
"Census".

Could you not give
us a Census for
the U.S. as a pre-
cursor and fari-
literator of a new
universal flora?

20/2/84.

Let me thank you,
dear Prof. Gray, for
your kind remarks
on L.E.'s last pub-
lication concerning
nomenclature. I

had written some
notes for the bot.
Centralblatt soon
after receiving the
work from Mr.
Hgh. de Candolle
himself. I may be
induced to write
still further on the
subject, but on this

occasion I would
merely remark,
that I agree with
you on nearly all
points. You have
however overlooked
one important
moment in regard
to the special case
of *Stylidium*, *Utricularia*
and *Candallia*; it
is this: Hickertia
absorbs Candallia;
so we would still
need a genus for
the great name of
Lb., and where is
the fixity without

priority? *Stylidium*
is for this a good
instance to point
to.

Let me hope, that
in serenity of mind
and firm health you
continue your great
labors.

Respectfully
yours

Er. von Mueller.

I have only Ray's
method in the
second edition, but
on enquiry in Europe
I was told, that
he already in the

25/3/84

In the publication
of the H. S. Linnæan
Society of New South
Wales, dear Professor
Gray, I have given
notes on *Linnæus*
^{revere}
name from a com-
munication of Prof
J. Agarrh of Lund.
The great Naturalist
wrote his name
himself Linné,
after he was enrolled
by the King of Sweden,
even putting it
thus on the title

page of some of
his last printed
writings. In
Denmark and
Germany it is
always written
Linné from my
own knowledge;
and I believe the
same is the case in
most European
states.

Respectfully
your
J. R. von Mueller.

from deep seated
bronchial inflam-
-mation, have become
-much debilitated and
only just now gain
a little appetite once
more, though the
cough is not subdued.
My parents died
early of phthisis and
all through life
I have suffered from
lung-affections.
My work, during
this protracted ill-
ness got into ^{some} arrears;
and if I at all get
well again, I must
make up for lost
time.

16/4/84

An irreparable loss
-indeed, dear Professor
Gray, that of Dr
Engelmann! So the
cast of the illustrations
from ~~his~~ gone, who
studied as close
friends together on
a German river-
city, Schimper, Alex.
Braun, Agassiz,
Engelmann.
We all, not so very
long ago, admired
his active field-
work in the interest
of forest-conservation.

not without our
misgivings as to
his overstraining
his bodily strength
at so venerable an
age. I hoped, he
would follow the
vent in longevity!
It is not so very
long ago, since I
had from him a
letter concerning
a very abnormal
form of Ciccuta
australis, which I
had sent him.
Perhaps you will
do me the kindness,

when writing to
his son, to express
my condolence.
Your elaboration
of the vast mass
of H. Arner. Compo-
sital - must be a
grand piece of work,
thorough and mas-
tfully like all you do.
It is most kind
of you, to invite
me to the British
Association in Ca-
and your own in Philadelphia
nada, and one of
the greatest joys
of such a tour would
be to shake hands
with you! But
alas I have now
7 months suffered

I find this can-
not much delay.

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I may have never
some time later
slip over for a short
itineration - in
N. America, and
hope then to pay
you personally my
homage.

Wentham wrote
me a touching fare-
well letter a few
months ago, stating
that he never could
hope to resume
work. Alas! That
he should be such
a sufferer at the
late evening of his
life, when we hoped
that he at all

events - would
in happy contempla-
tion of his
own gigantic achieve-
ments - watch also
calmly and joyfully
the progress of bot-
anical discoveries. He
must feel very lonely
also now towards
the end of his il-
lustrious career, ha-
ving no one of family
ties to cheer him up.

Let me hope, dear
St Gray, that your
health, and also
your serenity and

vigor of mind
will remain long
unimpaired.

Very respectfully
yours
Ferdinand Mueller

I will send the
two missing
parts of the Eucalyptography.

Lately a new arran-
gement has come
here into force, by
which Gov. publi-
cations are distri-
buted through the
Premier's Office.

8/9/85.

Again I have to thank
you, dear Professor Gray,
for spending some generous
praise on ^{one} ~~my~~ ^{what may be} work,
this time the last part
of the Eucalyptography;—
for altho' I have most
plates ready for an other
decade, I may not live
to finish it, as my health
is ^{so} vacillating. Had I con-
tinued in my garden to
live and ^{to be} among my trees,
also the Eucalyptography would
have been a still ampler
volume, altho I looked on
Eucalypto in Cononratia
and Arbustum since 1840,
and on them in Australia since
1847.

By the end of this
year I hope to issue
80 quarto-plates of fully-
original, but the ~~text~~
will not appear in 1885,
as I am also so much en-
gaged for the ^{forthcoming} great Colonial
Exhibition in London of-
ficially. However the
volume will be sent to
you, as soon as it is out.
Can I do for you any-
thing particularly?

Let me hope that you
are happy and well.

Respectfully your
serv. from Mueller.

29/9/87

Herewith, my honored
and venerable friend, I
beg to send some un-
corrected proof-pages of
part I, "Key to the system
of Victorian plants,"
which work is now com-
pleted in ms., and will
likely be in October through
the press. The method
of Lamarck was for this
impretensive little book
not adopted by me volun-
tarily, but chosen on par-
ticular request of the
Vit Field Naturalists
Club, of which I am the
Patron. When in a few
weeks you will receive
the complete volume, you
will be in a position, to
see, on what plan I was
working throughout.

The novel treatment is
two-fold: 1, abolition of
all terms used in human
anatomy and those in
zoology; 2, supportive notes
to each positive characteris-
tic in the dichotomia.

The greatest difficulty
I encountered ^{was} in choosing
such course throughout
as would not break the
chain of linear affinity.
In innovation, albumen
from "roots on a good clas-
sic work, and separates
the albumen of seeds from
that in chemistry and
human physiology. The elder
Ab already called the vege-
table placenta, "placentaria";
and I feel sure, you as
a medical confere will
approve of calling the fibro-
vascular tract in leaves
by one name, instead of
three, as neither ribs nor
nerves occur in plants.

"Venules" seemed the
best, as venula is an
expression also in me-
dical science. The great
vena cava, ~~vena porta~~
^{and you only find a large}
stand to the smaller
veins quite in the same
relation, as the "midrib"
in leaves to its "secondary
and tertiary venules".
Here I was in a parti-
cularly favorable position,
to make these changes,
because I have to
work here in ^{this} remote
^{and almost} corner of the world, de
novo" for the beginners,
and can thus without ^{local}
restraint and traditions,
come from Plinius time,
start a new course.
That I have placed the
Pymelia next to Rosa
can with doubtless meet
with your approval; indeed
that seems to me to be their
only possible position:
you are aware, that I am
"conservative", and that
I have not made these new

alterations in either
terminology or systema-
tology ~~either~~ rashly or
at caprice. If from your
immeasurably rich store
of knowledge you can
afford me enlightenment
on preferential position
of orders, I shall be greatly
beholden to you, and I
can utilize such remarks
then - if divine benignity
will spare me yet a
little longer for my
worldly career - for
likely subsequent editions
of this little book

Respectfully always
your J. W. von Mueller.

I think you received
part II of the "Key" already
with the xylographica illustra-
tions and the systematic
enumeration and geographic
notes

14/10/87.

In sending more proof of
my poor 'Key'; dear Prof.
Gray, you will see, that I
had some misgivings
in retaining the name
Geranium Coraliniannum;
and thought it safer, to
return to the original speci-
fic appellation of *G. pilosum*
for the widely distributed
Australian plant. Here it
is never annual, simply per-
ennial, we have no severe win-
ters; but the exact position
of several allied forms needs
to be studied from American
material; and altho' one
is in my own collection, much
through your generosity, and also
in London ^{largely} ex-
tant, it would
be best, that American local
experience ought to be brought
to bear on the subject

Perhaps one of your many
disciples would institute
researches in this direction.

Ever respectfully yours
J. von Mueller

Can you kindly inform
me what is the exact
position of the radiole
of *Sterculia Mexicana*?

26/1/88.

When the centennial anniversary of the independence of the U.S. was celebrated, my honored and venerable friend, you wrote me a letter, which I treasure among my best epistolary possessions. Now it is my turn, to write you on the most memorable day of Australia, when the second century of its settlement is commencing! You wrote, that you would devote such a day of honor to correspondence with ardent friends; and this sentiment I share

so completely, that I also
shall devote this day
to communications with
the learned, who honored
me with their friendship.
I telegraphed my felici-
tation to Sydney, whence
I was invited; & I have
done thus far my ho-
mage also on this grand
historic occasion! —

Hardly any special
question is before me,
concerning which I should
address you, though thou-
sands of objects interest
us mutually, but could
not be discussed by
letter-writing.

I am grateful, that divine
will has spared me, to live
into the second century
of Australian civilisation,
and to witness what
the energy and enterprise
~~has~~ of the British nation
^{accomplished} so gloriously
within such a space of time
also in Her Majesty's Au-
stralian Dominions!
To myself only a very brief
period of worldly existence
can be left; but it is with
some pride, that I look
back now to the results
of more than 40 years
uninterrupted toil in
endeavouring to advance
the interests of these great
southern lands: ^{applied} ~~humanly~~
through, in ^{applied} geography,
rural developments
and abstract science.

These observations will be useful to you
even regarding your
tribe on the whole

To the fullest extent do I
concur with your view
of the undesirability of
superseding the first
specific name in a
correctly chosen genus; and
was one of the reasons for
the chronology of Austral
plants in the 'Annals',
to embody that practice;
to which Bentham even
adhered yet in the earlier
volumes of the Austral. Flor.
to drag forward a name
in a species wrongly
placed before regarding the
genus. On this and many
other points, concerning
the systematic key of the
plants, I am just writing
an ~~essay~~ essay; and I leave
of you, to withhold any re-
view of that work, until

It only remains to say that
I have not seen the 'Annals',
and I may be wrong in my
assessments, but I would
not be surprised if they would
be found to be correct.

harrows of the
Civil war^{#4} of the
U.S., he wrote
on one occasion
the following
as the whole con-
tent of a letter, ac-
companied a
sending. Dear
Mueller, I am
distracted, but
I do not forget
you! Asa Gray,
and at the day
of your centenary
jubilee, he - though
so good a patriot -

15/5/88

Your deep sorrow,
dear Prof. Watson,
is shared by me,
at the mournful
loss of our in-
replacable friend,
Asa Gray! To you,
his companion
under arms, for con-
quering the vast
fields of the Amer.
flora, the passing
away of such a leader
must be particularly
sad; but his death

was one amidst
the bright testimony
honors and
in un fading
glory; and divine
merciful provi-
dence spared him
the pains of a
long and linger-
ing ^{illness}. I shall
miss Ada Gray
much! our friend-
ship became near
clouded in the
30 years commu-
nications bet-
ween us, and

he seemed always
to wish we should
meet for once in
life. Thus he in-
vited me pressing
to the British Asso-
ciation's meeting,
when it was held
on your side of the
Atlantic Ocean.
But I could in
my official de-
partmental posi-
tion at that grand
occasion not
make free the
medful time.
Even during the

many of the
nervous spirit, in which he

Washed your great Chief,
and sent that up for a great man.

will you be so
friendly, to express
my grief at such
a loss to Mr. Langley
of the Smithsonian
Institute and
also my profound
sorrow of so illu-
strious a leader of
his as Prof. Simon
Peirce having
passed away also!

With deep
respect to your
friend Mueller
My letter of felicitation
written on New Years
day 1888 may yet have

Wrote to me,
"the Streets are
recommending the
joy, but I gain
a day ^{for} of quiet work
on my plants!"
Such expressions
are worthy of a true
son of science.
So I shall never
see his handwri-
ting again again.
He wrote me
30 years ago, if
a batch of letters
came, and one
from Ashby

was among it,
that was always
first opened and
read. When in
1840 I commen-
ced my investi-
gations on the
Flora of the Mecklen-
burg portion of Schleswig,
then Danish terri-
tory, to which my
friend ^{Prof} Dr. Lange
particularly allu-
ded some years
afterwards pub-
lished as a brevi-

arium &c. the
name of Asa
Gray became at
once familiar to
me. Now within
few weeks three
leading Botanists
of great repute,
who honored me
with their friend-
ship, have passed
away. Asa Gray,
de Bary, Planchon!
My condolence
will have been
conveyed already
to Mrs Gray through
Prof. Sargent;

What would be
 the safest and
 least expensive
 means of sending
 such to be direct
 and expeditious.
 Your generous
 remarks about
 the dichotomous
 key are highly ap-
 preciated by me. The
 complete work I
 hope to send in July
 and before that
 send IX-XIII of
 Scarios.
 With regard to
 your
 Pr. van Muel-

In this sad morn-
 ing all rays of bright-
 ness by through
 you being able to
 continue the great
 phyto-graphic labours
 of A. Gray in the
 spirit imbued from
 him! Vol. II of the
 Botany of California
 is already a mo-
 nument of your
 masterly ^{and extensive} research
 May you be ~~able~~ ^{able}
 to bring the great
 labours of your
 preceptor in his
 sense to a worthy
 conclusion. —

The volume are undoubtedly
 the most valuable to the
 science of the world.

In the orography for the key I even
 did all your suggestions in

If you allow me
from ^{long} Australian
experiences to
offer a suggestion,
it would be to this
effect for the fur-
thrance of the
phytography of
N. Am., that a
statistic in a
schematic form
be published of
all plants of the
U.S. hitherto known.
Without my "Syst
Census" (which
doubtless you have)
I should really

I'm more of study plants, the more's
become convinced that many

not be able to
command the
field over the
scattered literature
of the plants occur-
ring as indigenous
to the Austr. Conti-
nent and record
their regional or
geographic distribu-
tion. What a boon
to us Extra-Ameri-
cans such a work
would be! ^{easy} surfe-
rence. —
Could a system
of interchange
be initiated and
a easy method
between our muse-
ums of dried plants.

alterations of the
are in the trees

New postal
arrangements
have come here
into operation.
lately for the
eastern hemi-
sphere, through
which the Victor-
ian Frank Stamps
carries. under
no longer the
sending of letters
& parcels free to
any other countries
but Britain &
British India & some
British Colonies.

But I believe
it does not affect
the ^{postal} Privileges
treaty between
the U. S. & Australia
on at all events
Victoria. Will
you kindly let
me know, whether
~~the~~ my letters
of late date have
come free there
yet, as - to all
my knowledge
they have done
formerly

Please remember
me to the excellent
Prof. Trelease & Sargent
regardfully
yours
John H. Mueller

Did you all the
proof-clips of the
Key, regularly sent
to your department
or rather our lamented
friend Dr. Gray
and after his death
to Prof. Sargent.

14/10/88.
Allown me, dear
Prof. Watson, to
draw your attention
to the fact,
that (as you
will soon see
in the Key to the
syct. of Vireo pl.) the
Jussieuana, called
by Mr Bentham
J. repens in the
Flora Austral. is
the J. diffusa
of Forster, as I
have found out.

It differs from
the *S. Asiatic* L.
repmo L. in small
flumens, in putate
entirely yellow not
largely white, in
only diminutive
natatory apparatus
and in some other
particulars.

Now in all pro-
bability the *N.*
American floating
Tussock is also
identical with
the *African* not
the *Asiatic* species.

So it would be
of interest, to re-in-
vestigate this
subject, for which
you have probab-
ly ample material
there. When at
the Murray River
in 1848 I saw
already, that the
Austr. sp. could
not be identical
with the Indian,
and gave it then
the temporary
name *S. australis*,
under which it
was distributed
in my earlier collections.

25/11/89

The Mexican
plants, sage-
warably sent,
dear Prof Watson,
are a most valu-
able addition
to the collections
here. I am indeed
much beholden
to you. I will
write more fully
after the mee-
ting of the Austral
Association for
the advancement
of science; we

are just prepa-
ring for it. I
have the honor
to be President,
and feel keenly
the responsibility
also. Respectfully
yours
J. W. Mullin

If we only think
of the unnatural
position e.g.
of Sabolacae,
kept at one end
of the Dicotyledo-
nae, while Cary-
ophylleae are near
the other end!
The sabolacae,
as we are all
aware, are only
less developed
Carnembrionatae
(or Amygdiferae),
just as Dodonaea
in Sapindaceae,

6/5/90.

This day, dear
Prof Watson,
arrived the
new edition of
Gray's Manual,
which you in
conjunction with
Prof Coulter and
with the aid of
local workers
have been able
to issue. It is a

worthy following
up of your great
preceptor's work
in this particu-
lar direction. I
mean, you
will gradually
take in the es-
sential Sootyledna
also, as you com-
menced to do with
the Jungerman
viacal. You doubt-
less felt reluctant
to make at once

any
great change in
the systematic
arrangement ^{of}
of piety to Wad-
gray, who in his
turn was unwill-
ing to depart
from the sequence
of the order as
revised much
from I was by
Jb. - But you
will concede, that
a natural system
cannot be perfect,
as long as the
Sp. taliae are kept
by themselves.

long been eager
to examine its
structure myself.

Respectfully
yours

John G. Muhl

If your aquatic
Suaeda has
the petals quite yellow
it will likely be *S.*
diffusa, as the genuine
S. repens has the
petals white except
the base; that plant
has never yet been
found in Australia

Alchemilla in
Rosaceae, & ne-
none in Ra-
nunculaceae
glans in Pri-
mularae &c.
since the last
25 years I have
abolished the
Monochlamydeae
in all my wri-
tings as such,
and I can use
the "Cenans" ^{of}
with far more
facility than the
"Flora Australis"

This day I have
posted to Prof
Coulter the "second
emanation", so that
he may see my
arrangement to
as emanating
from the study
of Australian
plants since
50 years (if I
include, in what I
observed from
1840 - 1846 on
plants of Australia
in European gardens).

attempts surely he distinguishes
the vulgaris?

Perhaps you
like to send
to your Colla-
borator this
letter, as it may
lead you to con-
sultations, whe-
ther the change,
recommended
by me, could be
adopted for ~~a~~
further editions
of the Manual.
Have you a
specimen of
Banksia to
compare? I have

7/7/90.

A few words,
Dear Prof Watson,
at the monthly
mail for America
will be despatched to morrow.
I like to follow
up some remarks
formerly offered,
about the advisa-
bility to distribute
the Monochlamydeae
among the other
orders, by pro-
posing only remaining
apart

are jointed with
the calyx, altho'
the latter may
be reduced to almost
nothing as in
some Rhododendrons,
Astrolabias, Diplolacnæ
&c. I like you and
Prof. Coulter to
consult about
this subject, not
because it is my
view, but because
we all must strive
from different ma-
terial to complete
a truly rational sys-
tem of affinities.
You both have the
second census and
"Key".

Respectfully yours
John Donnell-Smith

Since 25 years
I have done so
here, and we can
not have a com-
plete natural
system, unless this
is done. You will
not deem me
intrusive, when
I say, that I speak
from ~~an~~ independ-
ent experiments,
of my own during
30 years! As a
mere instance
in support I may
mention, that

* I mentioned this long ago in print
though late observations, while adop-
ting my view, by more
my observations, well
known to them.

Protiaceae*) and
or also Loranthus
are undoubtedly
pituliferous. In
Australia exists
a Loranthus,
my L. edonto-
calyx, which has
very conspicu-
ous denti-
cation of the
calyx, indeed
the latter is
five lobed,
the lobes of
course continu-
ous with the
tube. moreover
the pitules of
all these plants

can order to do so in a separate paper

24/1/91.

on my return-voyage from
New Zealand, dear Madam,
where I had by the rules
of the Austral Association
for Advancement of Science
to instal Sir James Hector
as my successor in the
Presidency, I avail myself
of spare-hours for correspon-
dence, and as the genial
Professor Goodale, to whom
I mentioned two remark-
able passages from letters
of your lamented Consort,
desired me to ^{communicate} ~~re-sent~~
them to you, I feel it a par-
ticular privilege to do so, -
altho' I write only from me-
mory.

The one passage ~~occurred~~
constituted the whole of
a letter, written to me at
the time of the dreadful
^{pratricidal} civil war, when the arms
of the Southern States were
in the ascendance. Thus he
wrote, "My dear Dr. Mueller,
"I am distracted, but do not
forget you, and now send
you a parcel of plants from
Texas" yours Asa Gray.
The other letter, to which I
refer, was also of laconic
but significant brevity:
"My dear Baron: This is the
centennial day, and in the
streets it is noisy joyous, but
I get a quiet day for my work."
This shows with what close
application your renowned
husband devoted himself to
science - considerations.

Prof. Goodale's presence
at the N. E. meeting of the
Australian Association shed
a great lustre on it. In
my short opening speech,
referring to the American
president, I paid him the
homage for having crossed
two oceans to bring us a
greeting from antipodal
distance of your great
science Union, and added,
that the highest praise we
could bestow on him, was
to recognize in him the
successor of Asa Gray!

Ever, dear Mrs Gray, yours
with profound regard
F. D. M. Mueller.

It was so kindly thoughtful

of Prof Asa Gray to invite
me specially to the Ame-
rican Assoc. meeting,
when he was President,
but in the administrative
departments of Victoria
near vacation-time
cries, and as I was then
extra-taxed also with un-
usually heavy work I could
not make the needful time
up, and thus one of my
greatest worldly wishes
to meet Asa Gray, remained
unfulfilled. When I think
of him, I like to express
myself in slightly altered
words of Caroline Fichler,
at the time of the death of Koerner,
a companion under arms in
1813 of my father, Aljo Rand as far
nor Wilhelm Doerna, Markta-schlag

with named species
Gemma like *Hydrea*
thus *Bramia*, *Madria*
^{some} ~~more~~ simply mis-
sed, and not inten-
tionally passed. If
such well established
gemma are left unat-
tributed to, where are
the exceptions to com-
mon and where to
end? Fixity of dual
names can only be
attained by adopting
in all cases the first
binary name within
a current genus!

With respectful
remembrance your
friend
J. D. M. Muller

28/5/91

Regret the oversight,
dear Prof Watson,
in not sending
you a complete
impression of the
second Canon of
"substr. plants". This
is now done by the
mail. The prin-
ting fund was
insufficient, to
furnish a preface
and addenda; but
a supplement is
likely to appear at
the end of this year

I do not altogether
concur in your
views of changes
in systems and in
names of plants.
The subject is too large
to discuss it in
a letter. You may have
read somewhere my
criticisms thereon, but
in 3 years ago for
the transcript of the
p.s. of V.S. W. also the
reference to the first
Cenozo. I may have
ever given some few
instances to illustrate
my own ideas.

Two European Pro-
fessors sent me 2
species of Polycar-
paea aboriginaria
nos and yet the
Simurraeaceae are
kept near one end
of the system and
the Caryophyllaceae
on the other. If Br.
overlooked Melica!
as ^{who quotes a synonyme!} Sepala. Malcolmia
likewise Malcolmia,
it was a want of
care, particularly at
that time, when bot.
libraries were
not large; if he wil-
lingly passed Sepala
genus it was a grave
mistake.

regards. A second
(continuing)
lot of woodbooks
is under prepa-
ration for him.
I hope you received
for Prof Goodale all
rightly as well the
wood-implements
as the imitation-
books.

With respectful
remembrance
your J. W. Muller

13/6/91

The latest set of
W. Pringle's plants
have just arrived,
dear Professor
Watson, and I
merely now write
to acknowledge
the receipt of them
in ^a good state of
preservation. Just
at the eve of the
departure of the
Amirican mail,
it is too late to take

out a money-order
for the £5⁰⁰ - ^{which}
this set costs,
but I will send
the payment by
the ^{monthly} next mail.
I had hopes, that
Mr Pringle would
have ascertained
something about
the value of the
timber and tan-
bark of the oaks, which
grow in the district
through which he
passed; but he

has hitherto sent
me no notes
in this respect,
which to obtain
no great diffi-
culty should ex-
ist. I had a very
kind letter from
the excellent Prof.
Goodale at the
moment of his
leaving Japan.
So he has perhaps
arrived at his
home again, when
this letter reaches
you. Pray give
him my kind

Private

I have often wondered, why Austra-
lian researches come
so scantily into
recognition elsewhere.
In the Pflanzen-
Familien many
important data
thus far are omit-
ted, e.g. ⁱⁿ Rubiaceae,
fossil Coniferae &c.
When B & H.
commenced their
“genera” I strongly
pleaded for the inclu-
sion of the Opuntiae
already.

Kindly
you ~~very~~ addenda
to suggest for the
new edition of the
"Select plants" from
regions traversed
by you? I adopt
now the genus
serenoa. Pray,
bid my best greet-
ing to the genial
and generous
Prof. Goddard!

With respectful
remembrance
yours
John G. Medler

10/7/91

Allow me, dear
Prof. Watson, for
the second time,
to send payment
through you to Mr.
Pingle ^{also} for the
new set of Mex-
ican plants, lately
received; and be
so kind, to sign
and return early
the enclosed receipt,
so that the audit,
which I made pri-
vately of my private

means, may be
come refunded to
me at the Gov.

Treasury here, which
can only be effect-
ed by a receipt
of this kind.

I am in a fix
about Pinus
of virginiana.

can find no data
about the ^{great} stem
diameter. London
gives it only at 2
inches ^{caps}
work I have only

in an iron
plate copy. Macoun
gives only localities
Have I overlooked
any important
publication,
referring to trees
of the Eastern States
of Am.? On the
Western States much
literature so far
^{and accessible to me} so ~~extant~~ ^{extant}. I hoped
Mr Pringle would
have gathered for
me some original
^{at all events} notes on timber
and bark of Mex-
ican oaks. Have